

2024 Dryland Winter Wheat Variety Performance Trial at Walsh

| Variety | Brand/Source | Market | | Test Weight | Protein | Plant Height |
|-------------------------------|--------------------------------|------------|--------------------------|-------------|-------------|--------------|
| | | Class | Grain Yield ^a | | | |
| | | | bu/ac | lb/bu | percent | in |
| CP7017AX | CROPLAN | HRW | 46.0 | 60.0 | 14.1 | 22 |
| Avery | PlainsGold | HRW | 45.0 | 57.5 | 14.0 | 28 |
| CO18D297R | Colorado State University exp. | HRW | 44.0 | 59.0 | 14.4 | 25 |
| CO18035RA | Colorado State University exp. | HRW | 43.5 | 59.0 | 15.1 | 23 |
| CO20D108R | Colorado State University exp. | HRW | 43.0 | 60.0 | 13.5 | 24 |
| Canvas | PlainsGold | HRW | 42.0 | 60.0 | 16.0 | 23 |
| Monarch | PlainsGold | HWW | 42.0 | 59.5 | 12.9 | 29 |
| CO19D087R | Colorado State University exp. | HRW | 42.0 | 57.5 | 13.7 | 22 |
| CO19D304R | Colorado State University exp. | HRW | 42.0 | 58.5 | 15.8 | 23 |
| Kivari AX | PlainsGold | HRW | 41.5 | 58.5 | 13.1 | 28 |
| Whistler | PlainsGold | HRW | 41.5 | 57.5 | 16.0 | 25 |
| CO20SF014W | Colorado State University exp. | HWW | 41.0 | 59.0 | - | 23 |
| Byrd | PlainsGold | HRW | 41.0 | 58.5 | 15.6 | 25 |
| Crescent AX | PlainsGold | HRW | 40.5 | 58.5 | - | 24 |
| CO18042RA | Colorado State University exp. | HRW | 40.0 | 58.5 | 15.1 | 27 |
| CO20022RC | Colorado State University exp. | HRW | 40.0 | 61.0 | 13.1 | 30 |
| CO18D007W | Colorado State University exp. | HWW | 39.5 | 59.5 | 13.4 | 29 |
| Guardian | PlainsGold | HRW | 38.5 | 59.5 | 15.4 | 21 |
| Breck | PlainsGold | HWW | 38.5 | 60.0 | 15.8 | 20 |
| CO20SF141R | Colorado State University exp. | HRW | 38.0 | 60.0 | 13.6 | 22 |
| CO19393R | Colorado State University exp. | HRW | 37.5 | 60.0 | 13.3 | 24 |
| CO20SFD020R | Colorado State University exp. | HRW | 37.5 | 59.5 | - | 24 |
| CO19410R | Colorado State University exp. | HRW | 37.5 | 59.5 | 13.2 | 23 |
| Byrd CL Plus | PlainsGold | HRW | 37.0 | 58.0 | 13.9 | 28 |
| Windom SF | PlainsGold | HWW | 37.0 | 60.5 | 15.1 | 26 |
| Amplify SF | PlainsGold | HRW | 36.5 | 59.0 | 15.3 | 24 |
| LCS Julep | Limagrain | HRW | 36.0 | 60.0 | 16.3 | 23 |
| CO21SF263RA | Colorado State University exp. | HRW | 35.5 | 57.0 | 15.9 | 21 |
| CO19S129W | Colorado State University exp. | HWW | 35.0 | 59.0 | 15.2 | 22 |
| Snowmass 2.0 | PlainsGold | HWW | 34.5 | 59.5 | - | 23 |
| CO200037R | Colorado State University exp. | HRW | 34.0 | 60.5 | 13.4 | 23 |
| Langin | PlainsGold | HRW | 34.0 | 58.5 | 14.1 | 20 |
| Fortify SF | PlainsGold | HRW | 32.5 | 58.5 | 13.7 | 28 |
| CO21SF191RA | Colorado State University exp. | HRW | 32.5 | 57.5 | - | 25 |
| AP Sunbird | AgriPro | HRW | 31.5 | 61.0 | 14.6 | 22 |
| CO20SFD019R | Colorado State University exp. | HRW | 31.5 | 59.0 | 15.8 | 24 |
| CP7220 | CROPLAN | HRW | 29.5 | 57.0 | 14.6 | 22 |
| Average | | | 38.5 | 59.1 | 14.5 | 24 |
| | | | ^b LSD (0.30) | 2.6 | 0.4 | |
| | | | ^b LSD (0.05) | 4.9 | 0.7 | |
| Coefficient of Variation (CV) | | | 13.0 | | | |

^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).

^bFarmers 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: Plainsman Research Center (Zane Jenkins, Kevin Larson, Brett Pettinger, and Perry Jones)
 Harvest date: June 24, 2024
 Planting date: September 19, 2023
 Soil Type: Wiley loam
 GPS Coordinates: 37.43416, -102.31022
 Trial Comments: Planted 1.5" deep into moisture and no-till wheat residue. Fall emergence and growth was very good. Lush growth in the spring. Cutworm damage noted in early spring, trial sprayed with insecticide on April 22. Radar estimates showed the trial received 5" of precipitation and 3,990 growing degree-days (GDD) (base 32°F) from January 1st through June 24th.

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