### 2017 Irrigated Winter Wheat Variety Performance Trial at Fort Collins

**Variety** | **Brand/Source** | **Market Class** | **Yield** | **Test Weight** | **Lodging** | **Heading**
--- | --- | --- | --- | --- | --- | ---
WB4303 | WestBred Monsanto | HRW | 108.2 | 61.4 | 1 | -2
Denali | PlainsGold | HRW | 105.0 | 64.0 | 2 | 2
Cowboy | Crop Research Foundation of WY | HRW | 103.7 | 63.2 | 8 | 4
KanMark | Kansas Wheat Alliance | HRW | 103.0 | 64.0 | 3 | -2
SY Wolf | AgriPro Syngenta | HRW | 102.3 | 62.9 | 1 | 3
Byrd | PlainsGold | HRW | 96.2 | 63.0 | 4 | -3
Larry | Kansas Wheat Alliance | HRW | 96.0 | 61.8 | 5 | 2
SY Sunrise | AgriPro Syngenta | HRW | 94.3 | 63.3 | 1 | 4
Hatcher | PlainsGold | HRW | 94.2 | 62.0 | 5 | -1
Avery | PlainsGold | HRW | 91.4 | 62.1 | 8 | 1
WB4458 | WestBred Monsanto | HRW | 88.0 | 61.8 | 2 | -2
Langin | PlainsGold | HRW | 87.8 | 62.3 | 2 | -4
Thunder CL | PlainsGold | HWW | 85.8 | 62.4 | 1 | -3
Brawl CL Plus | PlainsGold | HRW | 83.5 | 62.8 | 2 | -4
WB-Grainfield | WestBred Monsanto | HRW | 78.1 | 62.5 | 2 | -4
Snowmass | PlainsGold | HWW | 77.9 | 62.5 | 4 | 0
Antero | PlainsGold | HWW | 77.8 | 61.9 | 5 | -1
Sunshine | PlainsGold | HWW | 74.4 | 61.8 | 3 | -5

**Experiments**

| Variety | Brand/Source | Market Class | Yield | Test Weight | Lodging | Heading |
--- | --- | --- | --- | --- | --- | ---
CO12D296 | Colorado State University exp. | HRW | 118.7 | 65.4 | 1 | 0
CO13D1383 | Colorado State University exp. | HWW | 116.5 | 63.5 | 1 | 1
CO12D1770 | Colorado State University exp. | HRW | 108.2 | 64.0 | 1 | -1
CO13D1783 | Colorado State University exp. | HRW | 108.0 | 61.0 | 8 | 8
CO13D0787 | Colorado State University exp. | HRW | 104.0 | 63.9 | 2 | 1
CO13D1299 | Colorado State University exp. | HWW | 103.8 | 62.5 | 2 | -1
CO13D1479 | Colorado State University exp. | HWW | 101.7 | 62.5 | 7 | 3
CO12M0367 | Colorado State University exp. | HRW | 98.8 | 62.6 | 2 | 1
CO13D1638 | Colorado State University exp. | HWW | 97.2 | 61.9 | 4 | 1
CO13D1379 | Colorado State University exp. | HWW | 97.1 | 62.5 | 5 | 2
CO12D597 | Colorado State University exp. | HRW | 95.0 | 61.2 | 5 | -1
CO12D2011 | Colorado State University exp. | HWW | 94.9 | 63.9 | 2 | -1
CO13W187 | Colorado State University exp. | HWW | 94.7 | 62.2 | 3 | 0
CO13D2042 | Colorado State University exp. | HWW | 93.8 | 62.5 | 1 | 2
CO11D1539 | Colorado State University exp. | HRW | 87.3 | 60.7 | 8 | -1
CO13D1164 | Colorado State University exp. | HWW | 86.2 | 62.1 | 4 | 1
CO13D1714 | Colorado State University exp. | HWW | 76.1 | 63.1 | 2 | -2

**Average**

| Variety | Brand/Source | Market Class | Yield | Test Weight | Lodging | Heading |
--- | --- | --- | --- | --- | --- | ---
95.1 | 62.6 | 3 | 0

* Lodging score: 1 equals no lodging and 9 equals severe lodging.
* Varieties with positive values headed later than the trial average and varieties with negative values headed earlier than the trial average.
* If the difference between two variety yields equals or exceeds the LSD value, there is a 70% chance the difference is significant. Variety yields in bold are in the top LSD group.

**Site Information**

Cooperator: CSU Wheat Improvement Team and the Agricultural Research, Development and Education Center (ARDEC)
Harvest date: July 17, 2017
Planting date: September 26, 2016
Fertilizer: Pre-Plant: N at 135 lb/ac (applied as 46-0-0), P at 40 lb/ac, K at 7 lb/ac, Zn at 1 lb/ac
Herbicide: Huskie at 13 oz/ac
Fungicide: None
Trial Comments: Trial planted into good moisture, good stand establishment and fall growth. Good spring precipitation prior to start of spring irrigation. Wheat was laid flat from snow storm on May 18. Entries with good straw strength rebounded but those with poor straw strength showed significant lodging. Stripe rust found at relatively low levels in susceptible entries, but very hot temperatures in late June accelerated ripening of the trial.

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