

2016 Irrigated Winter Wheat Variety Performance Trial at Fort Collins

Variety	Brand/Source	Yield	Test Weight	Plant Height	Lodging	Heading
		bu/ac	lb/bu	in	score (1-9) ^a	days from trial avg ^b
Thunder CL	PlainsGold	100.2	56.9	39	2	-1
WB4458	WestBred Monsanto	97.5	55.4	40	2	-1
CO11D1236	Colorado State Univ. exp.	94.5	56.3	41	7	0
SY Sunrise	AgriPro Syngenta	91.1	57.9	37	1	1
WB4303	WestBred Monsanto	90.0	52.4	39	1	-1
Brawl CL Plus	PlainsGold	88.3	54.4	40	3	-3
Denali	PlainsGold	86.0	55.6	39	7	2
KanMark	Kansas Wheat Alliance	83.8	52.0	36	1	1
CO12D2011	Colorado State Univ. exp.	83.5	54.3	39	5	0
WB-Cedar	WestBred Monsanto	81.5	53.8	35	1	-5
SY Wolf	AgriPro Syngenta	80.6	54.4	38	3	1
Joe	Kansas Wheat Alliance	79.7	53.6	40	6	0
LCH13NEDH-14-69	Limagrain Cereal Seeds	79.6	52.4	35	7	0
CO12D906	Colorado State Univ. exp.	76.3	50.9	38	5	0
CO11D1312	Colorado State Univ. exp.	76.2	52.4	37	9	-1
CO11D446	Colorado State Univ. exp.	75.0	53.3	35	9	-2
Byrd	PlainsGold	74.8	52.2	37	9	0
Oakley CL	Kansas Wheat Alliance	74.3	50.1	37	9	0
CO11D421	Colorado State Univ. exp.	73.7	52.6	36	9	0
CO11D1767	Colorado State Univ. exp.	72.8	51.3	36	6	3
CO12D2010	Colorado State Univ. exp.	70.9	52.2	39	5	0
CO11D1306W	Colorado State Univ. exp.	70.4	53.5	39	7	3
Yuma	Colorado State University	70.3	50.8	39	8	0
CO11D1397	Colorado State Univ. exp.	67.2	51.8	34	9	0
Avery	PlainsGold	64.1	51.5	36	9	2
Hatcher	PlainsGold	64.1	50.5	38	9	0
Sunshine	PlainsGold	63.4	49.4	36	8	-3
Antero	PlainsGold	62.7	48.5	36	9	0
Cowboy	Crop Res. Found. of Wyoming	61.9	52.9	36	9	1
CO11D1539	Colorado State Univ. exp.	59.9	49.0	38	9	-1
CO12D922	Colorado State Univ. exp.	57.7	53.7	37	9	0
CO12D1028	Colorado State Univ. exp.	45.2	46.1	35	9	-1
	Average	75.6	52.6	37	6	June 2, 2016
	^c LSD (P<0.30)	6.3				

^aLodging score: 1 means no lodging and 9 means severe lodging.

^bVarieties with positive values headed later than the trial average and varieties with negative values headed earlier than the trial average.

^cIf the difference between two variety yields equals or exceeds the LSD value then they are significantly different with less than 30% probability that the difference is due to random error.

Site Information

Cooperator:	CSU Wheat Improvement Team and the Agricultural Research, Development and Education Center (ARDEC)
Harvest date:	July 15, 2016
Planting date:	September 23, 2015
Fertilizer:	Pre-plant: N at 60 lb/ac and P at 20 lb/ac; Starter: applied with planter as 5 gallons 10-34-0/acre (N at 5.8 lb/ac, P at 19.5 lb/ac). Early April application of N at 17 lb/ac with herbicide.
Herbicide:	Huskie herbicide (13 oz/acre) applied April 7.
Stripe Rust:	Stripe rust found by mid-May. Evito-T fungicide (3 oz/acre) applied with hand boom sprayer May 22. Good control achieved with help of hot early June temperatures.
General Comments:	Extremely lush spring growth, excellent spring moisture, very few irrigations needed. Severe lodging in the trial. Yields reduced by early June heat.

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