



2021 Irrigated Winter Wheat
Variety Performance Trial at Fort Collins

Variety	Brand/Source	Market Class	Grain Yield ^a	Test Weight	Lodging	Heading	Maturity	Plant Height
			bu/ac	lb/bu	avg score (1-9) ^b	days from trial avg ^c	days from trial avg ^c	in
WB4595	WestBred	HRW	119	56	2	1	2	36
CO18D007W	Colorado State University exp.	HWW	114	57	1	0	-4	38
EXP 303	Allegiant	HRW	112	59	2	1	2	36
WB4418	WestBred	HRW	112	57	1	0	3	38
Monarch	PlainsGold	HWW	110	57	4	0	0	36
CO16D1487	Colorado State University exp.	HRW	108	57	6	1	2	40
Brawl CL Plus	PlainsGold	HRW	108	58	4	-2	1	40
Lonerider	Oklahoma Genetics Inc.	HRW	105	56	1	1	0	37
Canvas	PlainsGold	HRW	105	59	2	0	1	37
Snowmass 2.0	PlainsGold	HWW	104	57	5	-1	0	37
CP7050AX	CROPLAN by WinField United	HRW	103	59	5	-1	-2	39
CP7017AX	CROPLAN by WinField United	HRW	102	57	8	0	-2	37
EXP 301	Allegiant	HRW	100	56	9	-3	-4	41
KS Silverado	Kansas Wheat Alliance	HWW	99	58	9	-1	1	36
KS Hamilton	Kansas Wheat Alliance	HRW	99	54	6	1	2	35
CO16SF070	Colorado State University exp.	HRW	97	54	5	0	1	36
CO16SF032	Colorado State University exp.	HRW	96	56	9	0	1	41
CO16D402W	Colorado State University exp.	HWW	95	55	9	-1	1	36
Breck	PlainsGold	HWW	95	57	6	0	-1	39
CO13007-F6R	Colorado State University exp.	HRW	92	56	9	0	0	39
Crescent AX	PlainsGold	HRW	92	57	9	0	0	41
Breakthrough	Oklahoma Genetics Inc.	HRW	91	57	5	0	2	38
CO18D297R	Colorado State University exp.	HRW	91	54	5	0	-1	38
CO16SF027	Colorado State University exp.	HRW	90	57	5	0	-1	37
Kivari AX	PlainsGold	HRW	83	55	9	0	1	37
CO16SF067	Colorado State University exp.	HRW	82	55	9	1	2	38
Guardian	PlainsGold	HRW	80	56	6	0	1	37
CO18D076W	Colorado State University exp.	HWW	58	54	9	0	-2	40
Average			98	56	6	June 4, 2021	July 8, 2021	38
^d LSD (0.30)			5	1				
^d LSD (0.05)			10	2				

^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).

^bLodging score: 1 equals no lodging and 9 is severe lodging.

^cVarieties with positive values headed or matured later than the trial average and varieties with negative values headed or matured earlier than the trial average.

^dFarmers 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: CSU Wheat Improvement Team and the Ag. Research, Development and Education Center (ARDEC)

Harvest date: July 20, 2021

Planting date: September 24, 2020

Soil Type: Fort Collins loam

GPS Coordinates: 40.652947, -104.99922

Trial Comments: Planted into moisture. Excellent stands and good fall growth. No diseases noted in mid-June. Irrigation started on June 3rd due to wet spring, total of 5" applied in June, none applied in July. Radar estimates showed the trial received 9.6" of precipitation and 3518 growing degree-days (GDD) (base 32°F) from Jan. 1st through July 20th, which was 0.3" above and 200 GDD below the 10-year averages, respectively.

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