



2024 Irrigated Winter Wheat Variety Performance Trial at Fort Collins

Variety	Brand/Source	Market Class	Grain Yield ^a bu/ac	Test Weight lb/bu	Lodging score (1-9) ^b	Heading days from trial avg. ^c	Plant Height in	Protein percent
CO18D007W	Colorado State University exp.	HWW	127.0	62.5	1	-1	35	12.6
CO19D304R	Colorado State University exp.	HRW	126.0	62.0	1	3	37	12.7
SY Wolverine	AgriPro	HRW	125.0	62.5	2	2	34	14.5
CO18D297R	Colorado State University exp.	HRW	123.5	63.0	2	0	35	13.0
Canvas	PlainsGold	HRW	122.5	63.5	1	0	34	13.5
CP7017AX	CROPLAN	HRW	122.5	63.5	2	-1	34	13.4
CO20022RC	Colorado State University exp.	HRW	122.0	64.5	1	0	35	12.6
LCS Steel AX	Limagrain	HRW	122.0	63.0	1	4	36	14.0
Monarch	PlainsGold	HWW	121.0	62.5	1	0	34	12.7
Kivari AX	PlainsGold	HRW	119.0	61.0	6	0	34	13.2
LCS Radar	Limagrain	HRW	116.5	63.0	1	-4	35	14.7
Breck	PlainsGold	HWW	115.5	64.0	4	0	34	13.8
Crescent AX	PlainsGold	HRW	115.5	62.0	6	-2	37	13.4
Windom SF	PlainsGold	HWW	115.5	64.5	3	-2	34	13.1
NE Prism CLP	NU Horizon Genetics	HRW	114.5	62.5	1	0	36	14.0
Snowmass 2.0	PlainsGold	HWW	114.0	62.5	1	-3	33	13.9
Guardian	PlainsGold	HRW	113.0	62.5	1	1	33	14.4
CO20SFD020R	Colorado State University exp.	HRW	111.5	63.5	2	2	32	13.1
Byrd CL Plus	PlainsGold	HRW	110.5	62.5	3	0	36	13.8
CO21SF191RA	Colorado State University exp.	HRW	109.0	60.5	1	3	35	14.9
CP7266AX	CROPLAN	HRW	109.0	62.5	2	0	34	12.8
Amplify SF	PlainsGold	HRW	108.5	63.0	1	1	36	14.1
LCS Atomic AX	Limagrain	HRW	106.5	63.0	2	0	35	13.2
CO20SFD019R	Colorado State University exp.	HRW	106.0	64.0	1	-4	34	13.8
Average			116.5	62.8	2	May 25, 2024	35	13.5
			^d LSD (0.30)	4.4	0.5			
			^d LSD (0.05)	8.4	1.0			
Coefficient of Variation (CV)					2.9			

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

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

Harvest date: July 12, 2024

Planting date: September 27, 2023

Soil Type: Fort Collins loam

GPS Coordinates: 40.652947, -104.99922

Trial Comments: Planted about 1.5" deep into moisture. Good fall emergence. Trial irrigated as needed starting in late spring. Weather station showed the trial received 4.7" of precipitation in addition to irrigation and 3,461 growing degree-days (GDD) (base 32°F) from January 1st through July 12th.

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