



2023 Irrigated Winter Wheat Variety Performance Trial at Fort Collins

Variety	Brand/Source	Market Class	Grain	Test	Lodging	Heading	Plant Height
			Yield ^a	Weight			
			bu/ac	lb/bu	score (1-9) ^b	days from trial avg ^c	in
Monarch	PlainsGold	HWW	128.5	58	1	1	30
Amplify SF	PlainsGold	HRW	128.0	58	6	2	35
CO18D007W	Colorado State University exp.	HWW	127.5	59	1	-1	30
CO18D297R	Colorado State University exp.	HRW	127.5	59	3	1	32
Valley	Frenchman Valley Coop	HWW	127.0	58	4	1	33
CO19D304R	Colorado State University exp.	HRW	124.5	58	6	2	35
Breck	PlainsGold	HWW	122.5	59	1	0	32
Canvas	PlainsGold	HRW	122.5	59	1	0	32
Guardian	PlainsGold	HRW	122.0	58	6	2	33
Snowmass 2.0	PlainsGold	HWW	122.0	58	2	-1	30
SY Wolverine	AgriPro	HRW	121.5	57	1	0	30
Byrd CL Plus	PlainsGold	HRW	118.5	57	8	2	36
CO18035RA	Colorado State University exp.	HRW	116.5	57	8	-2	31
CP7017AX	CROPLAN	HRW	116.0	59	1	0	31
CO18042RA	Colorado State University exp.	HRW	114.5	58	8	0	34
Crescent AX	PlainsGold	HRW	113.5	59	7	-2	32
Ray	PlainsGold	HRW	111.0	55	7	9	40
Windom SF	PlainsGold	HWW	111.0	60	2	-1	29
Kivari AX	PlainsGold	HRW	110.5	58	9	0	34
LCS Steel AX	Limagrain	HRW	110.5	58	1	-3	29
Brawl CL Plus	PlainsGold	HRW	103.0	58	1	-1	32
LCS Atomic AX	Limagrain	HRW	97.5	57	5	0	33
CP7266AX	CROPLAN	HRW	95.0	56	7	0	32
Average			117.0	58	4	May 27, 2023	32
^d LSD (0.30)			4.0	1			
^d LSD (0.05)			7.5	2			
Coefficient of Variation (CV)			4.7				

^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. Scores from three replicates.

^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 Improvement Team and the Ag. Research, Development and Education Center (ARDEC)
 Harvest date: August 9, 2023
 Planting date: September 29, 2022
 Soil Type: Fort Collins loam
 GPS Coordinates: 40.652947, -104.99922
 Trial Comments: Planted about 1.5" deep into moisture. Good fall emergence and stands. Trial irrigated as needed starting in late spring. Radar estimates showed the trial received 17.1" of precipitation in addition to irrigation and 4,115 growing degree-days (GDD) (base 32°F) from January 1st through August 8th.

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