



Summary of 2024 Irrigated Winter Wheat Variety Performance Results

Brand/Source	Market Class	Variety ^a	2024 Multi-Location Average						2024 Individual Trial Yield ^b		
			Yield ^b bu/ac	Yield percent of average	Test		Lodging score (1-9) ^c	Heading ^d days from average	Burlington	Fort Collins	Wiggins
					Weight lb/bu	Protein ^e percent					
Colorado State University exp.	HRW	CO19D304R	129.0	109%	60.1	12.5	1	3	100.5	126.0	163.0
Colorado State University exp.	HRW	CO20022RC	123.3	104%	61.5	12.8	1	0	94.0	122.0	156.0
PlainsGold	HRW	Crescent AX	123.3	104%	59.9	13.0	7	-2	100.5	115.5	153.0
PlainsGold	HWW	Monarch	123.2	104%	60.1	12.6	1	0	94.5	121.0	152.0
Colorado State University exp.	HRW	CO20SFD020R	122.9	104%	61.3	12.4	1	2	94.0	111.5	167.5
Colorado State University exp.	HWW	CO18D007W	122.3	103%	59.9	12.6	1	-1	86.0	127.0	150.5
Colorado State University exp.	HRW	CO18D297R	121.9	103%	60.7	12.7	1	0	88.0	123.5	155.0
CROPLAN	HRW	CP7017AX	121.6	103%	60.6	12.9	2	-1	94.0	122.5	145.5
PlainsGold	HRW	Canvas	121.4	102%	60.9	13.0	1	0	95.5	122.5	148.5
AgriPro	HRW	SY Wolverine	121.2	102%	58.6	13.6	1	2	92.0	125.0	151.0
PlainsGold	HWW	Windom SF	120.1	101%	59.0	12.9	2	-2	91.5	115.5	153.5
PlainsGold	HWW	Breck	120.0	101%	61.0	13.7	3	0	90.0	115.5	155.0
PlainsGold	HRW	Kivari AX	119.5	101%	58.5	12.2	7	0	95.5	119.0	144.5
PlainsGold	HRW	Byrd CL Plus	118.4	100%	60.1	13.2	3	0	84.5	110.5	161.5
PlainsGold	HRW	Amplify SF	118.2	100%	60.3	13.1	1	1	86.5	108.5	158.5
PlainsGold	HRW	Guardian	116.2	98%	60.2	13.5	1	1	87.0	113.0	147.5
PlainsGold	HWW	Snowmass 2.0	116.2	98%	59.8	12.9	1	-3	92.0	114.0	143.0
Limagrain	HRW	LCS Radar	114.6	97%	59.7	13.8	1	-4	86.5	116.5	141.5
Limagrain	HRW	LCS Steel AX	114.1	96%	58.9	13.2	1	4	80.0	122.0	139.0
Colorado State University exp.	HRW	CO21SF191RA	113.2	96%	58.1	14.1	2	3	75.5	109.0	153.0
Limagrain	HRW	LCS Atomic AX	113.0	95%	60.3	13.0	2	0	86.0	106.5	145.0
NU Horizon Genetics	HRW	NE Prism CL2	112.8	95%	60.2	13.7	1	0	77.0	114.5	146.5
Colorado State University exp.	HRW	CO20SFD019R	111.0	94%	60.9	13.3	1	-4	85.5	106.0	145.0
CROPLAN	HRW	CP7266AX	106.1	90%	60.2	12.6	2	0	73.5	109.0	137.5
		Average	118.5	100%	60	13.1	2	0	89.0	116.5	150.5
		^f LSD (0.30)	5.1		0.8				3.4	4.4	2.9
		^f LSD (0.05)	9.7		1.6				6.6	8.4	5.6

^aVarieties ranked from highest to lowest yield across three irrigated trials in 2024.

^bYield adjusted to 12% moisture content. Variety yield values in the top least significant difference (LSD) yield group across the locations and within each location are in bold. Multi-location yield values for each variety are least squares means and not arithmetic averages.

^cProtein adjusted to 12% moisture content and averaged across two trials in 2024.

^dVarieties with positive values headed later than the trial averages and varieties with negative values headed earlier than average. Based on one trial.

^eLodging score: 1 equals no lodging and 9 is severe lodging. Scores from three trials in 2024.

^fFarmers 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).

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