

Summary of 2024 Dryland Winter Wheat Variety Performance Results

Brand/Source	Market Class	Variety ^a	2024 Multi-Location Average						Sawfly Cutting ^e rating (1-9)	2024 Individual Trial Yield ^b					
			Yield ^b		Test Weight		Protein ^c percent	Heading ^d days from average		Sheridan					
			bu/ac	percent of average	lb/bu	percent				Akron	Julesburg	Lamar	Orchard	Lake	Walsh
PlainsGold	HRW	Whistler	59.5	109%	58.6	12.0	2	6	95.5	68.5	48.5	54.5	49.5	41.5	
PlainsGold	HRW	Avery	58.7	107%	58.6	11.3	0	5	97.0	63.5	45.0	59.0	38.5	45.0	
PlainsGold	HWW	Monarch	58.4	107%	59.7	11.7	1	4	99.5	74.0	44.0	58.0	34.0	42.0	
PlainsGold	HRW	Kivari AX	58.3	107%	58.0	11.5	0	6	90.5	62.0	52.0	61.5	40.5	41.5	
AgriPro	HRW	AP Sunbird	57.8	106%	60.3	11.7	-2	9	101.0	75.0	43.0	62.0	34.0	31.5	
PlainsGold	HRW	Byrd	56.9	104%	59.4	11.9	-1	6	93.5	67.0	43.0	60.5	35.5	41.0	
CROPLAN	HRW	CP7017AX	56.7	104%	59.5	12.1	-1	8	89.5	67.5	47.5	55.0	40.5	46.0	
PlainsGold	HWW	Breck	56.6	103%	59.7	12.0	0	6	90.0	65.5	46.0	59.5	39.5	38.5	
PlainsGold	HRW	Canvas	56.5	103%	59.4	12.2	1	4	95.0	64.5	40.5	60.0	37.5	42.0	
PlainsGold	HRW	Crescent AX	56.2	103%	58.9	11.2	-1	7	94.0	66.0	43.0	63.5	32.5	40.5	
PlainsGold	HRW	Langin	56.2	103%	58.8	11.6	-2	8	98.0	70.0	40.0	60.0	33.5	34.0	
PlainsGold	HWW	Snowmass 2.0	55.7	102%	59.3	11.3	-2	5	96.0	66.5	46.0	60.0	31.5	34.5	
PlainsGold	HRW	Byrd CL Plus	53.5	98%	58.8	11.6	-1	3	89.0	64.0	36.5	60.0	34.0	37.0	
PlainsGold	HRW	Amplify SF	52.8	96%	59.5	12.2	2	1	86.5	58.5	41.0	55.5	36.5	36.5	
PlainsGold	HWW	Windom SF	52.5	96%	56.2	12.3	1	2	83.0	56.0	47.0	51.0	38.5	37.0	
PlainsGold	HRW	Guardian	51.6	94%	60.0	12.3	0	6	86.0	59.0	41.0	54.0	36.0	38.5	
PlainsGold	HRW	Fortify SF	51.1	93%	59.1	12.3	0	2	94.0	59.0	41.5	54.0	26.5	32.5	
CROPLAN	HRW	CP7220	48.0	88%	57.4	12.7	0	5	77.5	63.0	40.0	52.0	27.0	29.5	
Experimentals															
Colorado State University exp.	HRW	CO19D087R	58.9	108%	58.4	11.3	-2	7	102.0	66.5	43.0	61.0	37.5	42.0	
Colorado State University exp.	HRW	CO19410R	58.6	107%	60.1	12.0	0	6	102.0	71.5	40.0	59.5	40.0	37.5	
Colorado State University exp.	HWW	CO18D007W	58.6	107%	59.5	11.6	-1	6	94.0	69.0	47.0	58.0	45.0	39.5	
Colorado State University exp.	HRW	CO19D304R	57.8	106%	58.2	11.7	0	7	93.5	69.0	48.5	52.0	42.0	42.0	
Colorado State University exp.	HRW	CO18D297R	57.8	106%	60.0	12.2	1	6	96.0	64.5	45.0	54.5	43.5	44.0	
Colorado State University exp.	HRW	CO18042RA	55.7	102%	58.6	11.5	-2	5	90.0	64.0	44.5	59.0	38.5	40.0	
Colorado State University exp.	HRW	CO20SFD020R	55.4	101%	60.3	11.3	1	2	98.0	67.0	40.5	54.5	37.5	37.5	
Colorado State University exp.	HRW	CO20D108R	55.1	101%	59.8	11.2	0	3	93.0	65.5	42.0	55.5	35.5	43.0	
Colorado State University exp.	HWW	CO19S129W	54.8	100%	59.7	12.2	1	4	91.0	62.5	46.0	56.0	36.5	35.0	
Colorado State University exp.	HRW	CO20022RC	54.2	99%	59.2	11.8	2	7	91.0	63.5	40.5	59.5	32.5	40.0	
Colorado State University exp.	HWW	CO20SF014W	53.7	98%	56.6	11.3	-1	1	86.5	59.0	46.0	51.0	39.0	41.0	
Colorado State University exp.	HRW	CO20SF141R	52.7	96%	57.5	11.7	0	1	81.0	59.0	47.0	54.0	37.0	38.0	
Colorado State University exp.	HRW	CO19393R	52.6	96%	59.8	11.9	1	5	88.0	57.5	45.5	52.5	32.0	37.5	
Colorado State University exp.	HRW	CO200037R	51.9	95%	59.2	12.0	-1	2	94.0	60.5	37.0	56.0	32.5	34.0	
Colorado State University exp.	HRW	CO18035RA	50.9	93%	59.3	11.6	0	5	81.5	58.5	38.5	49.5	37.0	43.5	
Colorado State University exp.	HRW	CO20SFD019R	50.5	92%	60.3	12.4	-2	2	92.5	66.0	36.0	53.0	26.0	31.5	
Colorado State University exp.	HRW	CO21SF191RA	48.6	89%	57.3	12.0	2	2	75.0	56.5	40.0	49.0	42.0	32.5	
Colorado State University exp.	HRW	CO21SF263RA	45.7	83%	57.3	12.9	2	2	70.0	49.0	37.5	40.5	39.5	35.5	
Average			54.7	100%	59	11.8	0	4	91.0	64.0	43.0	56.0	36.5	38.5	
^f LSD (0.30)			2.6		0.6				3.6	2.7	2.8	2.9	3.3	2.6	
^f LSD (0.05)			5.0		1.1				6.9	5.1	5.4	5.5	6.3	4.9	

^aVarieties grouped according to released varieties or experimentals, and then ranked from highest to lowest yield across six trials. Varieties not entered all dryland locations were not included to provide fair comparisons. Varieties entered in a single testing region (southeast or northeast Colorado) appear in the 2024 Colorado regional tables.

^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 six trials in 2024.

^dVarieties with positive values headed later than the trial averages and varieties with negative values headed earlier than average. Based on three trials in 2023.

^eWheat Stem Sawfly cutting score: 1 equals no cutting and 9 is severe cutting. Scores are averaged across three replicates at Roggen (site not harvested for yield).

^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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