



Summary of 2023 Dryland Winter Wheat Variety Performance Results



Brand/Source	Market Class	Variety ^a	2023 Multi-Location Average				2023 Individual Trial Yield ^b										
			Yield ^b	Yield	Test Weight		Heading ^d	New						Sheridan			
					bu/ac	percent of average		lb/bu	percent	days from average	Akron	Burlington	Genoa	Julesburg	Raymer	Orchard	Roggen
PlainsGold	HWW	Monarch	76.3	111%	57	10.5	0	101.5	103.0	60.5	70.5	81.0	97.5	83.5	43.5	54.5	71.0
PlainsGold	HWW	Snowmass 2.0	72.5	105%	57	10.7	-1	96.0	101.5	54.0	69.5	71.0	103.0	81.5	35.5	53.0	62.0
CROPLAN	HRW	CP7017AX	72.4	105%	58	10.6	0	93.0	97.0	53.0	72.0	81.5	96.0	77.5	41.0	51.0	65.5
Frenchman Valley Coop	HWW	Valley	72.0	104%	57	11.0	0	99.0	103.0	44.5	73.0	75.0	92.0	81.0	38.0	46.0	67.0
PlainsGold	HRW	Crescent AX	70.2	102%	58	11.0	-1	90.5	99.5	60.0	63.0	77.5	97.5	76.0	31.0	46.0	59.0
PlainsGold	HRW	Whistler	69.7	101%	56	10.2	1	76.0	75.0	62.0	68.0	90.0	89.0	81.0	48.5	53.5	67.0
PlainsGold	HRW	Amplify SF	69.6	101%	57	11.3	0	88.0	85.5	58.5	68.0	80.0	89.0	78.0	36.0	45.0	64.0
PlainsGold	HRW	Avery	69.6	101%	56	10.0	1	86.5	91.0	53.5	63.5	81.5	95.0	79.0	32.0	54.5	64.5
PlainsGold	HWW	Sunshine	69.2	101%	57	11.0	-1	97.5	91.0	58.5	66.0	80.5	87.0	75.0	31.0	49.0	62.5
PlainsGold	HRW	Byrd	69.2	100%	57	10.3	0	84.5	90.5	56.0	67.5	78.0	93.5	79.0	33.5	47.0	61.5
Meridian Seeds	HRW	MS Maverick	68.1	99%	57	11.2	0	98.5	81.0	55.0	68.0	76.0	89.0	73.0	36.5	53.5	60.0
PlainsGold	HRW	Byrd CL Plus	68.1	99%	56	10.5	0	89.0	91.0	56.5	67.0	77.0	92.5	78.0	34.5	37.0	61.5
PlainsGold	HRW	Kivari AX	67.9	99%	55	10.2	0	85.5	75.0	56.0	66.5	81.0	85.5	81.5	37.5	52.0	65.0
PlainsGold	HRW	Canvas	67.7	98%	57	11.1	0	76.0	87.5	46.0	69.5	83.5	86.5	77.0	40.0	55.0	60.0
PlainsGold	HWW	Breck	67.4	98%	58	10.6	0	82.5	77.0	53.5	61.5	74.0	91.5	73.0	38.5	60.5	63.0
PlainsGold	HRW	Guardian	66.7	97%	58	11.0	0	76.5	85.5	53.0	60.0	79.5	94.0	80.0	36.0	50.5	57.5
PlainsGold	HRW	Langin	66.6	97%	56	10.9	-2	77.0	88.5	62.0	60.5	71.0	94.5	83.0	31.5	36.0	61.0
PlainsGold	HRW	Brawl CL Plus	66.4	96%	57	11.6	-1	96.0	95.0	50.5	59.0	71.5	90.5	70.0	32.0	45.5	57.0
Limagrain	HRW	LCS Steel AX	66.1	96%	58	11.0	-2	84.0	107.0	56.5	59.0	65.5	88.0	74.0	33.0	45.0	58.0
PlainsGold	HRW	Hatcher	65.5	95%	56	10.6	0	78.0	84.5	55.5	59.0	74.0	83.0	74.5	37.5	51.5	58.5
PlainsGold	HWW	Windom SF	64.3	93%	57	10.6	-1	84.0	64.5	52.5	68.5	87.5	72.5	68.0	40.0	47.5	61.5
PlainsGold	HRW	Fortify SF	63.2	92%	57	10.5	0	73.5	74.5	47.5	61.0	76.0	96.0	74.0	32.0	34.5	67.5
Limagrain	HRW	LCS Atomic AX	59.7	87%	57	11.0	-1	80.0	100.0	48.0	65.0	57.5	84.5	75.5	21.5	10.5	56.0
PlainsGold	HRW	Ray	54.2	79%	52	11.7	6	58.5	60.5	41.5	46.0	68.0	77.5	66.0	33.5	42.0	52.5
Experimentals																	
Colo. State University exp.	HRW	CO19410R	75.6	110%	58	10.9	1	98.0	100.0	69.0	66.5	85.5	95.0	78.5	40.0	54.0	71.5
Colo. State University exp.	HRW	CO19393R	73.5	107%	57	10.8	0	92.0	101.0	58.5	67.0	83.0	95.0	87.5	43.0	45.0	63.5
Colo. State University exp.	HRW	CO20D108R	73.0	106%	57	10.8	1	86.5	99.0	53.0	66.5	82.0	90.5	82.0	39.5	56.5	67.0
Colo. State University exp.	HWW	CO18D007W	73.0	106%	57	10.4	0	97.0	93.0	53.5	67.0	70.0	102.0	82.0	40.5	54.0	68.5
Colo. State University exp.	HRW	CO19D087R	72.3	105%	56	10.9	-1	86.5	107.0	56.5	70.0	76.5	96.0	82.5	40.5	54.0	58.5
Colo. State University exp.	HRW	CO19D304R	71.9	104%	56	10.6	1	84.0	92.5	54.5	68.0	90.0	91.5	79.5	45.5	58.0	64.5
Colo. State University exp.	HRW	CO18D297R	71.9	104%	58	11.1	0	94.5	98.0	62.0	67.5	67.0	100.0	78.5	41.0	48.0	64.5
Colo. State University exp.	HWW	CO19S129W	71.7	104%	57	10.6	0	96.5	103.0	49.5	69.5	82.5	88.0	74.5	38.5	47.0	65.0
Colo. State University exp.	HWW	CO19S135W	70.6	103%	57	10.6	-1	96.5	103.5	53.5	70.5	77.0	94.0	82.0	31.5	39.5	66.5
Colo. State University exp.	HWW	CO19S085W	70.3	102%	57	11.4	0	90.0	94.0	55.5	65.5	78.5	95.0	79.5	38.0	49.0	61.0
Colo. State University exp.	HRW	CO18042RA	68.3	99%	57	10.5	1	88.5	96.0	61.0	62.5	74.5	84.5	78.5	35.0	42.0	59.5
Colo. State University exp.	HRW	CO19S053R	68.2	99%	57	10.5	0	77.5	84.5	57.0	64.0	87.0	92.0	77.5	37.0	49.5	63.5
Colo. State University exp.	HRW	CO18035RA	68.1	99%	56	11.1	-2	91.5	85.0	56.5	63.0	79.0	88.5	80.5	35.0	43.5	63.0
Colo. State University exp.	HRW	CO200037R	66.8	97%	57	11.0	1	83.5	90.5	50.5	64.5	76.0	87.0	72.0	36.0	52.5	60.5
Average			68.9	100%	57	10.8	0	87.0	91.0	55.0	65.5	77.5	91.0	77.5	36.5	47.5	62.5
‡LSD (0.30)			2.8					5.0	5.0	5.0	2.0	3.0	4.0	3.0	3.5	3.0	2.0
‡LSD (0.05)			5.3					9.5	9.0	9.5	4.5	6.0	7.0	5.0	7.0	5.5	4.5

^aVarieties grouped according to released varieties or experimentals, and then ranked from highest to lowest yield across ten trials in 2023. Varieties not entered at all ten locations were not included to provide fair comparisons. Varieties entered in a single testing region (southeast or northeast Colorado) appear in the associated 2023 Colorado regional summary table.

^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 seven trials in 2023.

^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.

^eFarmers 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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