



Summary of 2023 Dryland Winter Wheat Variety Performance Results - Northeast Region

Brand/Source	Market Class	Variety ^a	2023 Multi-Location Average					2023 Individual Trial Yield ^b						
			Yield ^b		Test Weight		Heading ^d	New						
			bu/ac	percent of average	lb/bu	percent		days from average	Akron	Genoa	Julesburg	Raymer	Orchard	Roggen
PlainsGold	HWW	Monarch	79.8	109%	57	10.4	0	101.5	60.5	70.5	81.0	97.5	83.5	71.0
Crop Research Foundation of WY	HRW	Steamboat	77.0	105%	59	10.5	1	95.0	63.5	73.0	77.5	91.5	80.0	67.5
AgriPro	HRW	AP Solid	76.1	104%	57	11.0	1	90.0	59.5	64.0	75.5	98.0	74.0	68.5
CROPLAN	HRW	CP7017AX	76.1	104%	58	10.6	0	93.0	53.0	72.0	81.5	96.0	77.5	65.5
PlainsGold	HWW	Snowmass 2.0	76.0	104%	57	10.6	-1	96.0	54.0	69.5	71.0	103.0	81.5	62.0
Frenchman Valley Coop	HWW	Valley	75.4	103%	58	10.9	0	99.0	44.5	73.0	75.0	92.0	81.0	67.0
PlainsGold	HRW	Amplify SF	75.2	103%	58	11.3	0	88.0	58.5	68.0	80.0	89.0	78.0	64.0
PlainsGold	HRW	Crescent AX	74.7	102%	58	10.9	-1	90.5	60.0	63.0	77.5	97.5	76.0	59.0
PlainsGold	HRW	Whistler	74.3	102%	56	10.0	1	76.0	62.0	68.0	90.0	89.0	81.0	67.0
PlainsGold	HWW	Sunshine	74.2	102%	57	11.0	-1	97.5	58.5	66.0	80.5	87.0	75.0	62.5
PlainsGold	HRW	Avery	74.1	101%	57	9.8	1	86.5	53.5	63.5	81.5	95.0	79.0	64.5
Kansas Wheat Alliance	HRW	KS Territory	74.1	101%	57	11.3	1	93.5	54.0	64.0	82.5	90.0	74.5	64.5
PlainsGold	HRW	Byrd	74.0	101%	58	10.2	0	84.5	56.0	67.5	78.0	93.5	79.0	61.5
PlainsGold	HRW	Byrd CL Plus	74.0	101%	57	10.5	0	89.0	56.5	67.0	77.0	92.5	78.0	61.5
PlainsGold	HRW	Kivari AX	73.4	101%	55	10.2	0	85.5	56.0	66.5	81.0	85.5	81.5	65.0
Meridian Seeds	HRW	MS Maverick	72.9	100%	58	11.0	0	98.5	55.0	68.0	76.0	89.0	73.0	60.0
AgriPro	HRW	AP Bigfoot	72.6	99%	58	10.7	-1	97.5	44.0	68.0	72.5	88.0	74.5	68.0
PlainsGold	HRW	Langin	72.6	99%	56	10.9	-2	77.0	62.0	60.5	71.0	94.5	83.0	61.0
PlainsGold	HWW	Breck	71.0	97%	59	10.5	0	82.5	53.5	61.5	74.0	91.5	73.0	63.0
PlainsGold	HRW	Canvas	70.6	97%	57	11.1	0	76.0	46.0	69.5	83.5	86.5	77.0	60.0
PlainsGold	HRW	Guardian	70.6	97%	58	10.8	0	76.5	53.0	60.0	79.5	94.0	80.0	57.5
PlainsGold	HRW	Fortify SF	70.3	96%	57	10.5	0	73.5	47.5	61.0	76.0	96.0	74.0	67.5
PlainsGold	HWW	Windom SF	70.1	96%	56	10.6	-1	84.0	52.5	68.5	87.5	72.5	68.0	61.5
PlainsGold	HRW	Brawl CL Plus	69.8	95%	58	11.6	-1	96.0	50.5	59.0	71.5	90.5	70.0	57.0
PlainsGold	HRW	Hatcher	68.8	94%	56	10.4	0	78.0	55.5	59.0	74.0	83.0	74.5	58.5
Limagrain	HRW	LCS Steel AX	67.9	93%	58	10.9	-2	84.0	56.5	59.0	65.5	88.0	74.0	58.0
Limagrain	HRW	LCS Atomic AX	66.2	91%	57	10.9	-1	80.0	48.0	65.0	57.5	84.5	75.5	56.0
PlainsGold	HRW	Ray	58.0	79%	51	11.8	6	58.5	41.5	46.0	68.0	77.5	66.0	52.5
Experimentals														
Colorado State University exp.	HRW	CO19410R	79.9	109%	58	10.9	1	98.0	69.0	66.5	85.5	95.0	78.5	71.5
Colorado State University exp.	HRW	CO19393R	77.7	106%	57	10.8	0	92.0	58.5	67.0	83.0	95.0	87.5	63.5
Colorado State University exp.	HWW	CO18D007W	77.3	106%	58	10.3	0	97.0	53.5	67.0	70.0	102.0	82.0	68.5
Colorado State University exp.	HWW	CO19S135W	76.2	104%	57	10.5	-1	96.5	53.5	70.5	77.0	94.0	82.0	66.5
Colorado State University exp.	HRW	CO20D108R	76.1	104%	57	10.7	1	86.5	53.0	66.5	82.0	90.5	82.0	67.0
Colorado State University exp.	HRW	CO18D297R	75.7	104%	58	11.1	0	94.5	62.0	67.5	67.0	100.0	78.5	64.5
Colorado State University exp.	HWW	CO19S129W	75.1	103%	57	10.5	0	96.5	49.5	69.5	82.5	88.0	74.5	65.0
Colorado State University exp.	HWW	CO19S085W	74.3	102%	57	11.5	0	90.0	55.5	65.5	78.5	95.0	79.5	61.0
Colorado State University exp.	HRW	CO19D304R	74.3	102%	56	10.5	1	84.0	54.5	68.0	90.0	91.5	79.5	64.5
Colorado State University exp.	HRW	CO19D087R	74.3	102%	56	10.8	-1	86.5	56.5	70.0	76.5	96.0	82.5	58.5
Colorado State University exp.	HRW	CO18035RA	73.9	101%	56	11.1	-2	91.5	56.5	63.0	79.0	88.5	80.5	63.0
University of Nebraska-Lincoln exp.	HWW	PSB13NEDH-14-83W	72.9	100%	58	10.3	0	101.5	52.5	69.5	67.0	92.0	74.5	63.0
Colorado State University exp.	HRW	CO19S053R	72.9	100%	57	10.5	0	77.5	57.0	64.0	87.0	92.0	77.5	63.5
Colorado State University exp.	HRW	CO18042RA	72.1	99%	57	10.3	1	88.5	61.0	62.5	74.5	84.5	78.5	59.5
Colorado State University exp.	HRW	CO200037R	69.7	95%	57	10.9	1	83.5	50.5	64.5	76.0	87.0	72.0	60.5
University of Nebraska-Lincoln exp.	HRW	NHH17450	61.8	85%	57	11.8	0	85.5	37.5	60.0	60.5	84.0	66.5	45.0
Average			73.1	100%	57	10.7	0	88.0	54.5	65.5	77.0	91.0	77.0	62.5
‡LSD (0.30)			3.0					5.0	5.0	2.0	3.0	4.0	3.0	2.0
§LSD (0.05)			5.6					9.5	9.5	4.5	6.0	7.0	5.0	4.5

^aVarieties grouped according to released varieties or experimentals, and then ranked from highest to lowest yield across seven northeast Colorado region trials in 2023.

^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.

^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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