



## Summary of 2023 Dryland Winter Wheat Variety Performance Results - Southeast Region

Brand/Source	Market Class	Variety <sup>a</sup>	2023 Multi-Location Average				2023 Individual Trial Yield <sup>b</sup>		
			Yield <sup>b</sup>	Yield	Test Weight	Protein <sup>c</sup>	Burlington	Sheridan Lake	Walsh
			bu/ac	percent of average	lb/bu	percent	bu/ac		
PlainsGold	HWW	Monarch	67.0	114%	57	11.1	<b>103.0</b>	43.5	54.5
Kansas Wheat Alliance	HWW	KS Big Bow	64.0	109%	57	11.4	99.5	40.5	52.0
PlainsGold	HWW	Snowmass 2.0	63.4	108%	56	11.5	101.5	35.5	53.0
CROPLAN	HRW	CP7017AX	63.1	108%	58	11.0	97.0	41.0	51.0
Frenchman Valley Coop	HWW	Valley	62.3	106%	57	11.2	<b>103.0</b>	38.0	46.0
Limagrain	HRW	LCS Steel AX	61.7	105%	58	11.9	<b>107.0</b>	33.0	45.0
PlainsGold	HRW	Canvas	60.9	104%	57	11.2	87.5	40.0	55.0
PlainsGold	HRW	Avery	59.1	101%	56	10.9	91.0	32.0	54.5
PlainsGold	HRW	Whistler	59.0	101%	55	11.3	75.0	<b>48.5</b>	53.5
PlainsGold	HRW	Crescent AX	58.7	100%	57	11.3	99.5	31.0	46.0
PlainsGold	HWW	Breck	58.6	100%	57	11.4	77.0	38.5	<b>60.5</b>
PlainsGold	HRW	Hatcher	57.9	99%	56	11.4	84.5	37.5	51.5
PlainsGold	HRW	Brawl CL Plus	57.4	98%	57	12.0	95.0	32.0	45.5
PlainsGold	HRW	Guardian	57.4	98%	57	11.8	85.5	36.0	50.5
PlainsGold	HRW	Byrd	57.1	97%	57	11.0	90.5	33.5	47.0
Meridian Seeds	HRW	MS Maverick	57.1	97%	55	12.6	81.0	36.5	53.5
PlainsGold	HWW	Sunshine	57.0	97%	56	11.5	91.0	31.0	49.0
PlainsGold	HRW	Amplify SF	55.5	95%	56	11.5	85.5	36.0	45.0
PlainsGold	HRW	Kivari AX	54.7	93%	55	10.1	75.0	37.5	52.0
PlainsGold	HRW	Byrd CL Plus	54.1	92%	56	11.1	91.0	34.5	37.0
PlainsGold	HRW	Langin	51.9	89%	56	10.8	88.5	31.5	36.0
PlainsGold	HWW	Windom SF	50.7	86%	57	11.2	64.5	40.0	47.5
PlainsGold	HRW	Fortify SF	46.9	80%	56	10.6	74.5	32.0	34.5
PlainsGold	HRW	Ray	45.2	77%	53	11.1	60.5	33.5	42.0
Limagrain	HRW	LCS Atomic AX	44.0	75%	56	11.6	100.0	21.5	10.5
<b>Experimentals</b>									
Colorado State University exp.	HRW	CO19D087R	67.1	115%	55	11.3	<b>107.0</b>	40.5	54.0
Colorado State University exp.	HRW	CO19D304R	65.2	111%	56	10.8	92.5	<b>45.5</b>	<b>58.0</b>
Colorado State University exp.	HRW	CO20D108R	65.0	111%	57	11.2	99.0	39.5	56.5
Colorado State University exp.	HRW	CO19410R	64.7	110%	57	11.2	100.0	40.0	54.0
Colorado State University exp.	HRW	CO19393R	63.1	108%	56	11.3	101.0	43.0	45.0
Colorado State University exp.	HWW	CO19S129W	63.0	107%	57	11.4	<b>103.0</b>	38.5	47.0
Colorado State University exp.	HWW	CO18D007W	62.5	107%	56	10.6	93.0	40.5	54.0
Colorado State University exp.	HRW	CO18D297R	62.4	106%	58	11.4	98.0	41.0	48.0
Colorado State University exp.	HWW	CO19S085W	60.3	103%	56	11.3	94.0	38.0	49.0
Colorado State University exp.	HRW	CO200037R	59.6	102%	57	11.3	90.5	36.0	52.5
Colorado State University exp.	HWW	CO19S135W	58.1	99%	56	11.8	<b>103.5</b>	31.5	39.5
Colorado State University exp.	HRW	CO18042RA	57.7	98%	56	11.2	96.0	35.0	42.0
Colorado State University exp.	HRW	CO19S053R	57.1	98%	57	10.9	84.5	37.0	49.5
Colorado State University exp.	HRW	CO18035RA	54.6	93%	56	11.0	85.0	35.0	43.5
<b>Average</b>			<b>58.6</b>	<b>100%</b>	<b>56</b>	<b>11.3</b>	<b>91.0</b>	<b>37.0</b>	<b>48.0</b>
			<sup>d</sup> LSD (0.30)				5.0	3.5	3.0
			<sup>d</sup> LSD (0.05)				9.0	7.0	5.5

<sup>a</sup>Varieties grouped according to released varieties or experimentals, and then ranked from highest to lowest yield across three southeast Colorado region trials in 2023.

<sup>b</sup>Yield adjusted to 12% moisture content. Variety yield values in the top least significant difference (LSD) yield group within each location are in bold. Multi-location yield values for each variety are arithmetic averages from across the three sites and could not be statistically analyzed due to the wide variation among locations.

<sup>c</sup>Protein adjusted to 12% moisture content and from Burlington trial in 2023.

<sup>d</sup>Farmers 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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