



K-STATE

Research and Extension

South Central Kansas Replicated Wheat Variety Tests 2021

Clearwater, Belle Plaine, Caldwell, Ark City, Harper

Special thanks to:



South Central Kansas Wheat Plots



2021

Variety		All		Clearwater		Belle Plaine		Caldwell		Ark City		Harper	
		Yield (bu/A)	Test Wt (Lbs/Bu)	Yield (bu/A)	Test Wt (Lbs/Bu)	Yield (bu/A)	Test Wt (Lbs/Bu)	Yield (bu/A)	Test Wt (Lbs/Bu)	Yield (bu/A)	Test Wt (Lbs/Bu)	Yield (bu/A)	Test Wt (Lbs/Bu)
Name	Source												
AM Cartwright	AgriMaxx	55.8	59.2	57.3	59.3	64.4	57.9	52.7	58.8	47.9	62.0	56.9	57.9
AP EverRock	AgriPro	54.1	58.9	59.4	59.3	62.8	58.4	45.6	59.9	55.0	60.9	47.6	56.1
SY Achieve CL2	AgriPro	56.3	60.8	60.1	60.0	64.9	59.9	52.5	61.6	47.7	61.9	x	x
SY AP18 AX	AgriPro	67.0	59.5	68.9	58.6	72.1	58.8	53.4	59.9	68.5	61.3	72.1	58.7
SY Bob Dole	AgriPro	62.0	61.0	60.2	60.4	69.1	59.6	62.5	60.2	52.4	65.2	65.9	59.6
SY Monument	AgriPro	55.6	57.8	56.9	58.3	60.7	56.9	53.8	58.6	57.6	58.9	49.1	56.2
AG Icon	AGSECO	55.9	59.3	56.1	59.4	63.7	59.6	51.3	59.5	56.2	61.2	52.1	57.1
AG Radical	AGSECO	60.7	60.2	60.9	60.7	70.7	59.9	51.3	60.9	69.4	62.6	51.4	56.8
KS Hatchett	KWA	54.4	60.1	60.1	59.7	64.6	61.2	47.5	62.5	x	x	45.3	56.9
KS Western Star	KWA	52.2	59.0	55.1	60.2	65.0	59.1	49.4	58.2	52.6	61.4	38.9	56.0
Larry	KWA	58.1	58.9	63.3	59.6	66.9	58.0	50.1	59.4	57.2	60.6	53.0	57.1
Zenda	KWA	55.4	61.2	55.4	61.1	67.3	60.2	47.4	62.0	51.2	62.5	55.7	60.2
LCS Atomic AX	LCS	60.6	60.4	65.9	60.0	69.2	58.8	54.3	61.0	52.9	61.6	x	x
LCS Chrome	LCS	58.4	59.7	58.7	60.3	69.3	58.6	57.2	58.9	54.9	62.5	51.6	58.3
LCS Helix AX	LCS	57.8	59.4	59.0	60.3	67.8	59.5	56.0	59.5	54.8	61.1	51.2	56.5
LCS Julep	LCS	56.0	60.2	61.0	60.8	64.7	58.2	52.8	61.2	55.2	61.2	46.4	59.6
LCS Photon AX	LCS	56.6	61.7	56.8	62.1	67.4	61.8	47.9	61.0	50.6	62.6	60.3	61.1
Butler's Gold	OGI	49.5	60.2	51.8	59.0	59.2	59.3	44.2	61.5	32.5	61.0	59.7	60.4
Doublestop CL+	OGI	56.1	61.4	57.8	61.3	62.2	60.9	56.4	61.3	41.2	61.6	62.9	61.8
Gallagher	OGI	61.7	60.9	67.7	60.3	67.6	58.9	49.6	61.1	61.8	63.3	x	x
Green Hammer	OGI	57.5	60.1	55.9	59.3	63.2	59.6	53.6	59.9	47.6	61.8	67.1	59.8
Showdown	OGI	64.2	59.5	66.1	59.9	76.4	59.3	62.1	61.0	58.8	60.3	57.5	57.1
Smith's Gold	OGI	61.1	60.5	58.8	60.8	74.6	59.8	49.4	60.6	62.3	61.7	60.2	59.5
Strad CL+	OGI	57.2	60.2	59.7	61.0	66.8	60.3	56.1	60.4	38.2	59.8	65.3	59.5
Uncharted	OGI	56.7	59.5	55.8	58.9	67.9	59.0	49.6	59.6	52.7	61.5	57.3	58.3
Paradise	Polansky	62.8	60.1	59.8	59.9	66.1	60.6	57.6	59.3	55.4	60.5	75.0	60.3
Rockstar	Polansky	64.9	59.2	63.8	60.0	76.2	58.1	63.4	59.4	56.2	61.2	65.0	57.5
WB4269	WestBred	53.2	59.8	56.4	60.3	61.5	60.1	48.3	59.5	50.6	61.7	48.9	57.3
WB4401	WestBred	61.9	61.3	59.7	60.8	72.2	59.5	51.4	61.5	57.0	63.0	69.3	61.4
WB4699	WestBred	53.9	58.3	56.9	58.9	66.5	57.9	43.9	60.1	58.2	60.3	44.2	54.6
Average		57.9	59.9	59.5	60.0	67.0	59.3	52.4	60.3	53.7	61.6	56.7	58.3
Min		49.5	57.8	51.8	58.3	59.2	56.9	43.9	58.2	32.5	58.9	38.9	54.6
Max		67.0	61.7	68.9	62.1	76.4	61.8	63.4	62.5	69.4	65.2	75.0	61.8

X - Plots lost to planting or harvest errors. Not enough data to post

Plot Information

Clearwater

Planted: 10/5/2020

Harvested: 6/18/2021

Planting Rate: 1.2 million seeds/ac

Tillage: No-Till

Previous Crop: Corn

Fertilizer:

1/23/2021

- 137 lbs/ac urea

3/9/2021

- 162 lbs/ac UAN-28%
- 9.5 lbs/ac Thi-Sul

Fungicide: 5/6/2021

- 8 oz Quilt Xcel/ac
(azoxystrobin & propiconazole)

Belle Plaine

Planted: 10/6/2020

Harvested: 6/18/2021

Planting Rate: 1.2 million seeds/ac

Tillage: No-Till

Previous Crop: Corn

Fungicide: Yes

Caldwell

Planted: 11/9/2020

Harvested: 6/18/2021

Planting Rate: 1.4 million seeds/ac

Tillage: Minimum tillage

Previous Crop: Corn

Fungicide: Yes

Ark City

Planted: 10/6/2020

Harvested: 6/18/2021

Planting Rate: 1.2 million seeds/ac

Tillage: Minimum Tillage

Previous Crop: Corn

Fungicide: Yes

Harper

Planted: 10/5/2020

Harvested: 6/18/2021

Planting Rate: 1.2 million seeds/ac

Tillage: Conventional

Previous Crop: Wheat

Fertilizer: 130 lbs urea/ac

Fungicide: around 5/15/2021

Clearwater Wheat Plot Soil Test

Clearwater 0-6" / 0-24"
Sampled: 3/4/2021

<i>Analysis</i>	<i>Value Found</i>	<i>Analysis</i>	<i>Value Found</i>
Soil pH (1:1, soil:water)	5.4	Buffer pH (Sikora)	6.3
Organic Matter (LOI), %	2.2%	Nitrate-N sub-surface / 2nd smpl	6 ppm
Phosphorus (P) Mehlich-3	24 ppm	Potassium (K)	157 ppm
Zinc (Zn) DTPA Extraction	0.9 ppm	Calcium (Ca)	1510 ppm
Magnesium (Mg)	3.14 ppm	Sodium (Na)	18 ppm
Aluminum (Al)	0.17 ppm	Sulfur (S) sub-surface / 2nd sample	2 ppm
Chloride (Cl) sub-surface / 2nd smpl	8 ppm	Cation Exch. Capacity (Summation)	21.2 meq/100g

2021 Andale Wheat Plot

Variety	Wheat Streak Mosaic Score
AM-Cartwright	7
Paradise	6
RockStar	7
AG-Icon	8
AG-Radical	7
SY-Monument	7
AP-EverRock	8
Bob Dole	7
SY-Achieve CL2	7
AP-18AX	6
Smith's Gold	8
ShowDown	6
Doublestop CL Plus	5
GreenHammer	7
Gallagher	9
Butler's Gold	8
Strad CL Plus	5
Uncharted	8
LCS-Photon AX	5
LCS-Helix AX	8
LCS-Julep	6
LCS-Atomic	7
LCS-Chrome	8
WB-4269	9
WB-4401	7
WB-4699	8
KS-Hatchett	9
KS-WesternStar	6
Larry	7
Zenda	7

Rating codes: 1 – Highly resistant; 3 – Moderately resistant; 5 – Intermediate; 7 – Moderately susceptible; 9 – Highly susceptible

Ratings Provided by: Erick De Wolf, K-State Plant Pathology