



K-STATE

Research and Extension

South-Central Kansas Replicated Wheat Variety Tests 2025

Andale, Clearwater, Haysville, Buhler, Newton, Belle Plaine, Caldwell

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Wellington & Caldwell

SC KS Wheat Plots - Yield

(bushels/acre)

Variety	Source	All	Andale ¹	Clearwater	Haysville	Buhler ²	Newton	Belle Plaine ¹	Caldwell
Kivari AX	PlainsGold	62.5	55.2	58.6	59.1	84.3	58.5	55.4	66.7
Rock Star	Polansky	61.9	50.6	57.8	62.1	79.9	63.8	60.1	58.9
AG Golden	AGSECO	60.8	51.5	57.0	59.5	87.4	63.3	51.2	55.5
WB4422	WestBred	60.7	36.8	58.5	53.3	80.4	71.8	59.2	64.7
LCS Steel AX	LCS	60.0	46.9	54.2	53.3	73.6	67.9	60.1	64.1
WB4347	WestBred	59.3	45.0	52.2	54.2	84.8	63.1	53.8	62.3
KS Bill Snyder	KWA	58.5	43.6	63.0	53.3	88.4	61.7	49.0	50.8
KS Providence	KWA	57.9	56.5	50.4	46.7	78.2	64.6	49.3	59.4
Showdown	OGI	56.7	37.0	56.8	50.0	78.3	52.6	51.6	70.7
WB4401	WestBred	56.6	53.8	37.5	56.0	73.4	59.1	57.5	60.4
LCS Helix AX	LCS	56.1	39.9	52.7	50.7	75.9	61.0	59.6	52.8
WB4523	WestBred	55.7	48.4	48.7	55.1	80.8	61.8	54.2	41.0
LCS Warbird AX	LCS	55.4	37.8	49.4	60.7	78.3	54.1	60.7	46.9
WB4445CLP	WestBred	54.8	38.8	53.2	57.1	73.7	63.0	40.9	58.3
LCS Runner	LCS	54.1	32.5	46.8	56.5	81.2	51.8	54.3	55.9
KS Mako	KWA	54.1	37.5	49.8	51.8	71.3	55.7	53.8	61.1
KS Ahearn	KWA	53.9	44.6	43.2	52.1	75.2	58.4	49.5	50.9
High Cotton	OGI	53.5	32.1	51.4	52.4	79.3	70.1	41.9	53.0
AG Radical	AGSECO	53.5	34.3	50.0	50.2	79.9	60.9	48.9	50.3
LCS Atomic AX	LCS	53.1	31.7	48.2	49.8	86.6	59.3	50.2	48.7
Golden Hawk	Polansky	53.1	44.0	42.7	53.4	70.2	56.9	53.3	51.1
KS170013D-19	K-State	52.9	31.8	52.6	49.0	82.6	44.3	48.5	61.0
WB4699	WestBred	52.2	36.4	47.4	49.0	71.8	65.2	46.8	47.2
Doublestop CL+	OGI	50.5	36.1	50.7	41.4	71.0	56.3	39.7	58.3
Bob Dole	AgriPro	50.2	29.5	41.9	49.3	72.2	61.9	41.2	55.5
AP Prolific	AgriPro	50.1	40.1	44.3	49.0	68.6	60.7	37.4	50.4
AP24 AX	AgriPro	49.3	37.4	27.3	46.8	71.7	61.1	50.9	49.8
AP18 AX	AgriPro	46.1	27.5	33.4	44.6	75.5	58.2	40.8	40.7
Average		55.1	40.6	49.3	52.4	77.6	60.3	50.7	55.2
Max		62.5	56.5	63.0	62.1	88.4	71.8	60.7	70.7
Min		46.1	27.5	27.3	41.4	68.6	44.3	37.4	40.7

*Values, highlighted in gray and bold, belong statistically to the highest yielding group. We cannot say values within the group are different from each other

1) These locations had hail damage

2) Issues with combine moisture sensor during harvest. One moisture was assigned to all repetitions



Plot Information

Andale

Planted: 10/02/2024

Harvested: 6/25/2025

Planting Rate: 1.2 million seeds/ac

Tillage: Conventional

Previous Crop: Wheat

Fertilizer: (per acre)

- Pre-Plant - 20 lbs P + 20 lbs K
- Starter - ~3 gal 10-34-0
- Topdress - 80 lbs N + 12 lbs S

Fungicide: Yes

Clearwater

Planted: 10/03/2024

Harvested: 7/03/2025

Planting Rate: 1.2 million seeds/ac

Tillage: No-Till

Previous Crop: Corn

Fertilizer: (per acre)

- Starter - ~4 gal 10-34-0
- Topdress - 106 lbs N + 5 lbs S

Starter: ~4 gal 10-34-0

Fungicide: No

Haysville

Planted: 10/16/2024

Harvested: 6/20/2025

Planting Rate: 1.2 million seeds/ac

Tillage: Reduced Till

Previous Crop: Sorghum/Sudangrass

Fertilizer: (per acre)

- Pre-Plant - 8 gal 10-34-0
- Topdress - 45 lbs 46-0-0

Fungicide: No

Buhler

Planted: 10/02/2024

Harvested: 7/02/2025

Planting Rate: 1.2 million seeds/ac

Tillage: No-Till

Previous Crop: Corn

Fertilizer:

- 120 lbs N split applied
- Starter - ~4 gal 10-34-0

Fungicide: No

Plot Information

Newton

Planted: 10/01/2024

Harvested: 7/03/2025

Planting Rate: 1.2 million seeds/ac

Tillage: No-Till

Previous Crop: Corn

Fertilizer: 110 lbs N + 40 lbs P + 30 lbs K
+ 10 lbs S + 1 lbs Zn

Starter: ~4 gal 10-34-0

Fungicide: No

Belle Plaine

Planted: 10/03/2024

Harvested: 6/25/2025

Planting Rate: 1.2 million seeds/ac

Tillage: No-Till

Previous Crop: Corn

Fertilizer: (per acre)

- 120 lbs N split applied pre and topdress
- Starter: ~4 gal 10-34-0

Fungicide: Yes

Caldwell

Planted: 10/04/2024

Harvested: 6/25/2025

Planting Rate: 1.2 million seeds/ac

Tillage: Conventional

Fertilizer: (per acre)

- 105 lbs N split applied
- Starter: ~4 gal 10-34-0

Fungicide: No

Andale Wheat Plot Soil Test

Depth: 0-6"
Sampled: 3/12/2025

<i>Analysis</i>	<i>Value Found</i>	<i>Analysis</i>	<i>Value Found</i>
Soil pH (1:1, soil:water)	6.4	Buffer pH (Sikora)	7.2
Organic Matter (LOI), %	1.9%	Magnesium (Mg)	195 ppm
Phosphorus (P) Mehlich-3	37 ppm	Calcium (Ca)	1650 ppm
Potassium (K)	180 ppm	Sodium (Na)	12 ppm
Zinc (Zn) DTPA Extraction	0.9 ppm	Cation Exch. Capacity (Summation)	10.4 meq/100g

Clearwater Wheat Plot Soil Test

Depth 0-6"
Sampled: 3/12/2025

<i>Analysis</i>	<i>Value Found</i>	<i>Analysis</i>	<i>Value Found</i>
Soil pH (1:1, soil:water)	6.0	Buffer pH (Sikora)	7.0
Organic Matter (LOI), %	2.7%	Magnesium (Mg)	420 ppm
Phosphorus (P) Mehlich-3	36 ppm	Calcium (Ca)	1657 ppm
Potassium (K)	190 ppm	Sodium (Na)	10 ppm
Zinc (Zn) DTPA Extraction	1.0 ppm	Cation Exch. Capacity (Summation)	12.3 ppm

Haysville Wheat Plot Soil Test

Depth 0-8"
Sampled: September 2024

<i>Analysis</i>	<i>Value Found</i>			<i>Analysis</i>	<i>Value Found</i>		
Soil pH (1:1, soil:water)	6.6			Nitrate-N	5.4 ppm		
Organic Matter (LOI), %	0.9%			Sulfur (S)	9 ppm		
Phosphorus (P) Mehlich-3	25 ppm			Magnesium (Mg)	140 ppm		
Potassium (K)	141 ppm			Calcium (Ca)	1240 ppm		
Zinc (Zn) DTPA Extraction	1.0 ppm			Sodium (Na)	14 ppm		
Manganese (Mn)	254 ppm			Iron (Fe)	130 ppm		
Boron (B)	0.3 ppm			Copper (Cu)	1.8 ppm		
Cation Exch. Capacity	CEC	%H	%K	%Ca	%Mg	%Na	
	8	0	5	80	15	1	

Newton Wheat Plot Soil Test

Depth 0-6"
Sampled: 3/12/2025

<i>Analysis</i>	<i>Value Found</i>	<i>Analysis</i>	<i>Value Found</i>
Soil pH (1:1, soil:water)	6.8	Buffer pH (Sikora)	7.2
Organic Matter (LOI), %	2.6%	Magnesium (Mg)	198 ppm
Phosphorus (P) Mehlich-3	49 ppm	Calcium (Ca)	2528 ppm
Potassium (K)	192 ppm	Sodium (Na)	5 ppm
Zinc (Zn) DTPA Extraction	1.9 ppm	Cation Exch. Capacity (Summation)	14.8 ppm

Buhler Wheat Plot Soil Test

Depth 0-6"

<i>Analysis</i>	<i>Value Found</i>	<i>Analysis</i>	<i>Value Found</i>
Soil pH (1:1, soil:water)	5.6	Buffer pH (Sikora)	6.6
Organic Matter (LOI), %	3.5%	Magnesium (Mg)	283 ppm
Phosphorus (P) Mehlich-3	28 ppm	Calcium (Ca)	2162 ppm
Potassium (K)	186 ppm	Sodium (Na)	16 ppm
Zinc (Zn) DTPA Extraction	1.3 ppm	Cation Exch. Capacity (Summation)	20.9 ppm