



# WHEAT SUMMARY 2023

RANKED BY YIELD



Variety	Population in millions seeds/acre	Height (in.)	Protein (%)	Test Weight (lbs/bu)	Yield (bu/A)				Average Yield (bu/A)	Revenue/ Acre
					Fisher	Crookston	Alvarado	Thompson		
TCG Spitfire	1.5	27.0	14.5	65.5	82.5	80.6	102.5	113.3	94.7	\$ 649.65
CP3099A	1.4	28.2	12.9	65.1	88.6	80.2	107.8	101.8	94.6	\$ 619.54
WB9719	1.5	24.7	15.0	66.4	78.9	74.4	94.4	108.5	89.1	\$ 616.33
MN Torgy	1.5	26.5	15.4	66.9	82.5	69.1	97.1	103.6	88.1	\$ 612.07
CP3188	1.4	26.7	13.8	65.0	76.8	75.0	100.5	104.7	89.3	\$ 602.51
WB9590	1.5	22.0	15.7	65.6	73.6	74.3	98.4	100.2	86.6	\$ 601.96
LCS Buster	1.5	28.7	12.4	65.0	94.6	79.3	96.9	103.7	93.6	\$ 599.15
MN Rothsay	1.5	23.8	15.1	65.9	67.0	73.0	97.8	104.4	85.5	\$ 594.41
TCG Teddy	1.8	22.3	15.1	66.0	70.6	75.8	93.9	97.5	84.4	\$ 586.92
TCG Badlands	1.5	25.0	14.6	65.0	70.5	76.3	98.6	93.1	84.6	\$ 583.14
TCG Zelda	1.5	23.5	15.2	65.2	72.1	72.3	93.8	97.3	83.9	\$ 582.94
SY Valda	1.5	24.3	14.8	65.6	75.6	73.5	93.7	87.5	82.6	\$ 571.59
CP3915	1.4	25.7	15.5	65.6	64.3	76.1	92.0	91.5	80.9	\$ 562.60
WB9479	1.5	22.0	16.3	65.8	63.4	71.6	98.5	90.2	80.9	\$ 562.36
AP Smith	1.5	23.5	15.1	65.4	74.9	75.6	83.8	88.6	80.7	\$ 560.97
SY 611 CL2	1.5	23.0	15.4	66.4	68.5	71.7	85.5	91.2	79.2	\$ 550.66
TCG Wildcat	1.8	24.0	15.6	65.6	62.0	71.4	92.4	86.3	78.0	\$ 542.29
LCS Cannon	1.5	23.7	15.3	66.1	62.2	65.4	78.1	96.2	75.5	\$ 524.63
AP Gunsmoke CL2	1.5	24.2	15.5	65.5	66.4	63.3	71.8	92.7	73.5	\$ 511.00
AP Murdock	1.5	23.2	15.0	64.0	55.4	73.5	84.9	79.9	73.4	\$ 510.38
TCG Heartland	1.8	22.5	16.1	65.1	56.8	67.3	85.3	76.8	71.6	\$ 497.42
Hammer AX	1.5	22.7	15.6	64.4	46.0	61.0	86.2	82.7	68.7	\$ 477.25
Red Fife	1.2	40.2	13.7	63.4	63.5	61.0	77.3	77.1	69.7	\$ 470.73
<b>LSD P = 0.10</b>			<b>0.6</b>	<b>2.1</b>	<b>10.0</b>	<b>61.0</b>	<b>11.4</b>	<b>11.5</b>	<b>10.8</b>	
<b>CV</b>			<b>3.0</b>	<b>2.4</b>	<b>10.6</b>	<b>61.0</b>	<b>9.0</b>	<b>9.1</b>	<b>9.8</b>	
<b>Grand Mean</b>			<b>15.1</b>	<b>65.3</b>	<b>69.6</b>	<b>61.0</b>	<b>93.7</b>	<b>93.6</b>	<b>82.3</b>	

Revenue/Acre:  
 Commodity price = \$6.80/bu HRS 14%  
 +\$0.03 per 1/5 protein 14-15 pro  
 -\$0.05 per 1/5 protein <14 pro





## WHEAT SUMMARY: MULTI YEAR DATA



Variety	Lodging *	2021	2022	2023	2-Year			3-Year		
		Yield (bu/A)	Yield (bu/A)	Yield (bu/A)	Protein (%)	Test Weight (lbs/bu)	Yield (bu/A)	Protein (%)	Test Weight (lbs/bu)	Yield (bu/A)
TCG Spitfire	1.0	69.9	95.5	94.7	14.0	63.8	<b>95.1</b>	13.9	63.3	<b>86.7</b>
WB 9590	1.1	68.3	95.3	86.6	15.1	63.5	<b>91.0</b>	14.9	63.7	<b>83.4</b>
MN Rothsay	1.0		94.9	85.5	14.5	63.7	<b>90.2</b>			
WB 9719	1.0	65.6	91.2	89.1	14.7	65.4	<b>90.2</b>	14.6	65.1	<b>82.0</b>
TCG Zelda	1.0		94.5	83.9	14.8	63.8	<b>89.2</b>			
LCS Buster	2.8		84.0	93.6	12.3	62.6	<b>88.8</b>			
SY Valda	1.3	62.2	94.3	82.6	14.5	63.9	<b>88.5</b>	14.4	63.7	<b>79.7</b>
MN Torgy	2.1	70.7	88.4	88.1	15.1	64.5	<b>88.3</b>	14.9	64.3	<b>82.4</b>
WB 9479	1.0	60.1	93.1	80.9	15.6	63.8	<b>87.0</b>	15.5	63.9	<b>78.0</b>
TCG Teddy	1.0		89.4	84.4	14.6	64.0	<b>86.9</b>			
TCG Badlands	1.3		88.3	84.6	14.3	63.0	<b>86.5</b>			
TCG Wildcat	1.0	65.2	92.8	78.0	15.3	63.9	<b>85.4</b>	15.1	63.7	<b>78.7</b>
AP Smith	1.0	63.1	89.3	80.7	14.5	63.3	<b>85.0</b>	14.7	63.0	<b>77.7</b>
SY 611CL2	1.1	62.0	86.7	79.2	14.9	64.2	<b>83.0</b>	14.6	64.2	<b>76.0</b>
AP Murdock	1.4	65.9	90.5	73.4	14.4	62.3	<b>82.0</b>	14.6	62.4	<b>76.6</b>
Croplan 3915	1.2	59.0	82.1	80.9	14.9	64.3	<b>81.5</b>	14.7	64.2	<b>74.0</b>
AP Gunsmoke CL2	1.8	68.5	89.2	73.5	14.8	63.6	<b>81.4</b>	14.6	63.5	<b>77.1</b>
TCG Heartland	1.0	60.3	83.7	71.6	15.7	64.1	<b>77.7</b>	15.7	64.0	<b>71.9</b>

\* Lodging score from 2022





# FUNGICIDE WHEAT TRIAL 2023



Effects of Fungicide Application at Herbicide & Early Flowering on Spring Wheat

Variety	No Fungicide Applications			Fungicide Application at Herbicide and Early Flowering		
	Yield (bu/A)	Test Weight (lbs/bu)	Protein (%)	Yield (bu/A)	Test Weight (lbs/bu)	Protein (%)
LCS Buster	86.8	64.6	13.0	94.6	66.5	12.4
CP3099A	86.9	67.4	13.0	88.6	65.6	13.3
MN Torgy	74.9	72.5	15.8	82.5	68.0	15.8
TCG-Spitfire	69.4	63.4	14.6	82.5	64.1	14.8
WB9719	65.4	64.4	15.8	78.9	65.5	15.6
CP3188	69.1	64.2	14.1	76.8	65.2	13.7
SY Valda	70.9	64.6	15.0	75.6	65.5	14.9
AP Smith	64.3	63.8	15.1	74.9	64.6	15.3
WB9590	64.4	63.9	16.4	73.6	64.8	16.4
TCG Zelda	73.9	64.0	15.3	72.1	64.1	15.5
TCG-Teddy	65.8	64.4	15.8	70.6	65.1	15.4
TCG-Badlands	66.7	66.5	14.5	70.5	64.2	15.3
SY 611 CL2	65.1	65.0	15.5	68.5	65.5	15.7
MN Rothsay	72.8	65.2	15.6	67.0	64.6	15.6
AP Gunsmoke CL2	70.3	69.5	15.9	66.4	67.6	15.9
CP3915	57.7	64.4	16.2	64.3	66.3	16.1
Red Fife	63.0	63.0	14.3	63.5	63.4	14.1
WB9479	58.0	63.4	16.5	63.4	66.6	17.3
LCS Cannon	62.0	66.8	15.6	62.2	65.6	15.8
TCG-Wildcat	73.4	65.8	15.7	62.0	63.8	16.0
TCG-Heartland	64.3	63.9	16.6	56.8	64.6	16.9
AP Murdock	66.4	66.4	14.9	55.4	62.7	15.4
Hammer AX	46.4	60.6	15.8	46.0	61.6	15.7
LSD P = 0.10	12.1	1.4	0.6	10.0	2.5	0.5
CV	13.2	1.7	2.9	10.6	2.9	2.6
Grand Mean	67.5	63.9	15.4	69.6	64.4	15.5

Gain from Fungicide Application		
Yield	TW	Protein
+ 2.1	+0.5	+ 0.1

Herbicide Treatment	Rate	Flowering Treatment	Rate
Axial Bold	15 oz/A	Miravis Ace	13.7 fl oz/A
WideARmatch	14 oz/A	NIS 90-10	1 qt/100
Sword	1/2 pt/A		
Headline SC	3 fl oz/A		
Lambda T2	1.5 fl oz/A		



# FUNGICIDE WHEAT TRIAL

## MULTI-YEAR DATA



Year	Fungicide Application			No Fungicide Application			Gain/Loss		
	Yield (bu/A)	Protein (%)	Test Weight (lbs/bu)	Yield (bu/A)	Protein (%)	Test Weight (lbs/bu)	Yield (bu/A)	Protein (%)	Test Weight (lbs/bu)
2010	81.1	14.4	61.4	74.3	14.0	61.4	6.8	0.4	0.0
2011	65.1	14.9	60.4	60.6	14.9	58.7	4.6	0.0	1.7
2013	73.5	14.1	62.2	63.4	14.3	62.0	10.1	-0.2	0.2
2014	101.2	13.1	61.5	97.5	13.2	61.1	3.7	-0.1	0.4
2015	90.8	14.5	61.7	79.8	14.3	61.3	11.0	0.2	0.4
2017	100.5	13.9	60.9	93.7	14.0	61.0	6.8	-0.1	-0.1
2018	68.5	15.1	61.7	65.0	15.0	62.1	3.5	0.1	-0.4
2019	65.0	15.7	59.8	62.5	15.8	59.6	2.5	-0.1	0.2
2020	74.7	15.0	60.6	59.9	15.0	59.5	14.6	0.0	1.1
2022	91.2	14.5	62.1	89.3	14.5	61.2	1.9	0.1	0.9
2023	69.6	15.5	64.4	67.5	15.4	63.9	2.1	0.1	0.5
<b>AVERAGE</b>	<b>80.1</b>	<b>14.6</b>	<b>61.5</b>	<b>74.0</b>	<b>14.6</b>	<b>61.1</b>	<b>+ 6.1</b>	<b>0.0</b>	<b>+ 0.4</b>