

Table 1. 2021 TCG HRS Wheat trial results in 6 environments

Variety	Site Yield bu/a						Average Across 6 Sites		
	North Dakota			Minnesota			Yield	Protein	Test Weight
	Casselton	Thompson ¹	Crystal ¹	Crookston ¹	Fisher	Fisher ¹	bu/a	%	lbs/bu
TCG-Spitfire	88.0	84.6	49.9	45.0	42.0	44.1	58.9	14.4	60.6
Prosper	90.2	79.2	47.1	41.9	40.4	37.1	56.0	14.6	60.2
LCS Trigger	84.9	72.0	48.8	43.5	40.0	39.5	54.8	13.0	60.0
SY-Valda	82.8	76.5	42.2	52.9	44.1	28.3	54.5	14.6	61.3
TCG-Wildcat	83.4	74.1	50.1	44.3	29.4	33.9	52.5	15.2	61.2
LCS Rebel	78.7	73.0	50.7	42.7	34.4	29.3	51.5	15.5	61.8
MN-Torgy	79.2	76.9	50.4	50.3	23.1	26.1	51.0	14.9	61.7
Boost	75.9	72.3	38.8	35.7	44.6	38.0	50.9	15.5	60.4
WB-Mayville	69.3	70.3	50.6	36.8	38.7	35.6	50.2	16.2	61.6
LCS Cannon	80.8	68.6	47.5	31.3	23.4	34.1	47.6	15.4	62.6
TCG-Cornerstone	68.0	75.0	39.4	38.8	27.1	36.8	47.5	15.8	60.3
TCG-Glennville	71.6	69.7	44.9	25.6	36.1	35.2	47.2	16.3	63.0
Linkert	64.0	67.2	41.6	30.8	34.7	42.0	46.7	16.4	62.2
Shelly	64.0	72.1	57.7	28.6	24.7	30.3	46.2	15.1	61.8
TCG-Heartland	66.5	66.5	45.1	33.0	34.4	31.1	46.1	16.4	62.0
AP Murdock	66.5	60.9	43.2	39.2	30.3	33.3	45.6	15.6	59.7
TCG-Wildfire	78.2	73.1	29.1	36.0	29.3	27.6	45.5	15.4	59.4
TCG-Climax	71.8	68.3	47.9	41.2	21.2	19.9	45.1	16.2	61.1
Bolles	75.0	66.6	31.8	32.0	32.4	27.8	44.3	16.9	59.9
Barlow	70.6	66.6	41.1	35.6	27.0	22.6	43.9	15.7	62.1
SY-Ingmar	71.8	63.9	38.7	35.1	20.5	26.4	42.7	15.9	61.0

¹ Sites treated with fungicide

Table 2. Four-year average performance of TCG varieties and checks across 7 sites

Variety	Average yield bu/a				4 year averages			
	2018	2019	2020	2021	Yield	Protein	Test Weight	Lodging
					bu/a	%	lbs/bu	Score ¹
TCG-Spitfire	77.3	71.8	68.3	58.9	69.1	14.3	58.6	0.1
TCG-Wildcat	72.6	64.3	66.1	52.5	63.9	15.3	60.4	0.0
SY-Valda	70.1	65.4	63.4	54.5	63.4	14.6	59.4	1.8
WB-Mayville	66.0	63.6	66.4	50.2	61.5	15.9	60.0	0.1
Shelly	76.6	63.1	59.9	46.2	61.5	15.0	60.1	2.3
Prosper	72.6	62.0	55.0	56.0	61.4	14.7	59.2	3.4
TCG-Heartland	69.5	60.9	62.6	46.1	59.8	16.1	60.4	0.0
TCG-Cornerstone	66.3	62.8	61.9	47.5	59.6	15.5	59.4	0.0
Boost	70.9	58.3	56.9	50.9	59.2	15.0	59.3	2.6
TCG-Wildfire	65.4	60.4	64.0	45.5	58.8	15.2	58.9	1.2
SY-Ingmar	70.8	59.4	60.2	42.7	58.3	15.5	60.4	0.4
TCG-Climax	68.8	58.6	60.1	45.1	58.1	16.0	61.1	0.9
Linkert	64.3	58.4	57.3	46.7	56.7	16.1	60.3	0.0
TCG-Glennville	59.6	56.5	58.0	47.2	55.3	16.1	60.9	0.0
Bolles	69.9	59.8	46.1	44.3	55.0	16.7	58.9	2.6
Barlow	66.9	56.7	50.8	43.9	54.6	15.5	60.7	2.9

¹ Three year average (0 = least, 10 = most)