

Table 1a. 2018 TCG HRS Wheat Trial Results in 7 environments.

Entry	Site Yield bu/a						
	North Dakota				Minnesota		
	Casselton	Casselton ¹	Thompson ²	Crystal ²	Crookston ²	Fisher	Fisher ²
TCG-Spitfire	55.7	68.6	96.0	104.8	74.1	67.0	75.1
Shelly	76.1	84.4	87.1	76.3	66.2	78.6	67.8
Prosper	75.6	64.4	81.0	80.5	62.9	71.8	71.8
Boost	66.8	70.0	88.2	69.3	62.0	65.3	74.6
SY Ingmar	64.6	59.2	69.1	94.2	72.3	66.0	70.2
SY Valda	61.5	50.6	94.1	95.5	68.1	59.1	61.9
Bolles	64.7	66.4	95.0	65.0	55.9	70.5	71.5
Surpass	67.7	73.6	83.6	69.1	64.4	66.9	63.1
TCG-Heartland	57.0	57.1	82.6	90.7	75.3	59.3	64.8
TCG-Climax	59.8	71.6	76.5	83.6	73.1	55.2	61.9
TCG-Stalwart	65.6	66.7	83.9	57.2	65.5	68.1	73.8
Caliber	52.9	65.9	82.9	87.4	66.0	59.1	54.4
Barlow	69.5	69.7	80.2	49.9	56.9	71.3	71.1
TCG-Cornerstone	53.2	65.2	80.2	90.4	63.2	57.6	54.5
Granite	53.7	57.0	78.0	83.9	72.3	58.6	59.3
WB-Mayville	61.6	57.2	62.8	91.2	69.1	59.6	60.5
TCG-Wildfire	62.3	58.1	85.4	87.6	53.9	52.8	58.0
Vitpro	63.0	62.4	73.1	50.2	64.9	70.1	70.1
Linkert	55.5	55.5	78.7	80.9	68.7	51.9	58.6
Vantage	52.1	38.0	81.6	79.3	61.3	56.8	57.3
TCG-Glennville	41.1	43.8	71.8	83.6	62.1	55.3	59.3

¹ Late harvested trial.

² Sites treated with fungicide.

Table 1b. 2018 TCG HRS Wheat Trial Results in 7 environments.

Entry	Average Across 7 Sites			
	Yield	Protein	Test Weight	Lodging
	-bu/a-	-%-	-lbs/bu-	Score ³
TCG-Spitfire	77.3	15.2	58.9	1.0
Shelly	76.6	14.8	60.8	2.3
Prosper	72.6	14.9	60.0	3.3
Boost	70.9	15.3	60.1	2.7
SY Ingmar	70.8	16.0	61.2	1.0
SY Valda	70.1	15.8	59.2	2.6
Bolles	69.9	16.8	60.0	2.8
Surpass	69.8	15.0	60.1	2.7
TCG-Heartland	69.5	16.4	60.8	1.0
TCG-Climax	68.8	16.4	62.0	1.1
TCG-Stalwart	68.7	16.0	58.4	1.1
Caliber	67.0	16.5	60.4	1.0
Barlow	66.9	16.0	61.2	2.9
TCG-Cornerstone	66.3	16.3	59.2	1.0
Granite	66.1	16.4	61.8	1.1
WB-Mayville	66.0	16.4	60.5	1.0
TCG-Wildfire	65.4	16.2	58.9	2.4
Vitpro	64.8	15.8	61.5	2.7
Linkert	64.3	16.5	61.0	1.0
Vantage	60.9	16.6	61.6	1.1
TCG-Glennville	59.6	16.8	61.6	1.0

³ Score: 1=least and 9=most.



Wheat Summary 2018

Ranked by Revenue/Acre

Variety	Pop*	Protein (%)	TW (lbs)	Height (inches)	Lodging Score**	Crookston Yield (bu/A)	Fisher Yield (bu/A)	Thompson Yield (bu/A)	Crystal Yield (bu/A)	Average Yield (bu/A)	Net \$/Acre	Rank by Yield
WB 9479	1.5	14.6	63.1	27.8	1.0	79.62	72.39	86.49	99.59	84.5	\$438.66	2
TCG Spitfire	1.5	13.8	61.2	30.1	1.0	87.42	67.45	95.33	92.97	85.8	\$437.55	1
WB 9590	1.5	14.5	61.6	26.8	1.0	76.92	74.16	78.35	103.21	83.2	\$429.94	3
WB 9719	1.5	14.2	64.3	29.0	1.0	80.58	70.47	90.32	87.30	82.2	\$423.17	4
TCG Heartland	1.8	15.1	62.7	28.5	1.0	73.36	66.87	86.70	93.80	80.2	\$419.35	8
DG Ambush	1.7	14.2	61.9	30.4	2.2	68.88	70.17	87.36	95.23	80.4	\$414.11	6
Cannon LCS	1.5	14.3	63.4	29.3	2.5	69.35	67.47	88.18	95.71	80.2	\$412.92	9
Croplan 3419	1.7	13.5	60.4	31.1	1.2	74.81	69.28	87.23	94.29	81.4	\$412.70	5
SY Valda	1.8	14.3	61.4	30.2	2.7	65.18	67.53	89.27	98.18	80.0	\$412.21	10
SY Soren	1.8	14.7	62.2	27.5	1.2	66.42	72.22	83.83	93.96	79.1	\$410.58	11
SY McCloud	1.5	14.8	63.4	29.8	1.2	74.81	68.65	74.27	94.88	78.2	\$407.17	13
TCG Cornerstone	1.8	14.6	61.8	28.2	1.0	74.43	64.25	85.20	88.33	78.1	\$405.09	14
Shelly (UM)	1.5	14.0	62.3	29.1	2.8	62.26	69.81	93.72	87.96	78.4	\$402.38	12
Trigger LCS	1.5	12.7	61.5	32.6	1.7	79.19	67.26	85.40	89.42	80.3	\$397.57	7
DG Caliber	1.8	15.2	61.9	26.1	1.0	67.67	62.35	87.39	85.73	75.8	\$396.35	18
Linkert (UM)	1.8	15.3	62.2	27.2	1.2	69.81	62.41	82.21	87.77	75.6	\$395.13	19
WB Granite	2.0	14.7	63.7	29.9	1.0	73.59	64.04	89.20	77.04	76.0	\$394.28	16
WB Mayville	1.5	14.6	61.9	26.9	1.0	74.77	59.76	77.90	91.05	75.9	\$393.79	17
Croplan 3100	1.4	14.0	61.4	29.5	1.2	69.65	66.79	81.56	88.97	76.7	\$393.70	15
TCG Climax	1.5	15.8	63.3	30.1	1.0	72.09	61.84	80.39	85.92	75.1	\$392.56	20
Croplan 3616	1.4	15.3	61.3	30.4	2.0	64.58	72.67	76.18	84.00	74.4	\$388.88	22
Rebel LCS	1.5	14.2	63.3	32.7	2.8	64.96	68.52	85.64	78.53	74.4	\$383.21	21
TCG Glennville	1.8	15.8	62.9	27.0	1.0	70.42	63.91	69.15	85.15	72.2	\$377.38	23
Vitpro (NDSU)	1.5	15.3	63.3	31.5	2.7	61.07	62.48	79.86	77.79	70.3	\$367.67	25
Croplan 3530	1.4	14.0	61.1	33.8	3.5	62.01	55.76	79.03	85.23	70.5	\$361.71	24
Lang (UM)	1.5	14.8	62.0	32.9	3.7	61.46	66.01	83.30	63.75	68.6	\$357.57	26

* Planted population in millions of seeds per acre

** Lodging score: 1=best; 10=worst

Net \$/A calculation: @ \$5.13/bushel & \$0.02 per 1/5 protein to 15 & \$0.03 per 1/5 protein to 11



Table 2. Two year average (2017-2018) performance of TCG varieties and checks at six locations.

Entry	2 Year Average Yield(bu/a)						2 year average over 6 sites			
	North Dakota			Minnesota			Yield	Protein	Test Weight	Lodging
	Casselton	Crystal ¹	Thompson ¹	Crookston ¹	Fisher ¹	Fisher	(bu/a)	(%)	(lbs/bu)	Score ²
TCG-Spitfire	88.8	107.4	99.4	81.6	85.7	79.7	90.4	14.4	60.1	1.0
Shelly	87.5	83.6	91.9	83.0	91.2	91.9	88.2	14.1	61.1	1.8
Prosper	80.1	91.2	81.0	82.2	86.3	85.0	84.3	14.3	60.3	3.3
Granite	79.2	91.3	87.1	81.0	80.4	75.3	82.4	15.7	62.7	1.0
TCG-Climax	87.9	86.5	85.3	79.9	80.6	73.3	82.2	15.9	62.8	1.0
SY Valda	76.2	88.4	96.4	80.4	78.6	72.8	82.1	15.0	60.3	2.6
SY Ingmar	77.8	90.4	80.6	78.8	83.8	77.7	81.5	15.4	61.7	1.0
TCG-Wildfire	81.3	87.2	91.2	73.7	75.8	71.5	80.1	15.0	59.9	2.2
WB-Mayville	74.4	89.9	79.8	77.4	81.0	75.7	79.7	15.6	61.2	1.0
TCG-Cornerstone	72.9	90.5	87.9	72.8	76.0	70.8	78.5	15.5	60.5	1.0
Linkert	70.4	87.1	81.6	80.0	77.6	67.3	77.3	15.8	61.0	1.0
Vantage	67.3	83.1	85.3	74.5	75.6	76.5	77.1	15.9	62.5	1.0
Barlow	85.8	62.1	73.9	68.9	81.6	78.1	75.1	15.7	61.7	3.2
TCG-Glennville	67.4	84.6	74.2	67.3	76.3	69.4	73.2	16.1	61.9	1.0

¹Sites treated with fungicide

² Score: 1=least and 9=most.

Table 3. Three year average (2016-2018) performance of TCG varieties and checks at four locations¹.

Entry	3 Year Average Yield(bu/a)				3 year average over 4 sites			
	North Dakota		Minnesota		Yield	Protein	Test Weight	Lodging
	Crystal	Thompson	Crookston	Fisher	(bu/a)	(%)	(lbs/bu)	Score ²
TCG-Spitfire	100.3	97.8	80.6	87.4	91.5	14.0	59.9	1.5
Shelly	79.5	87.9	78.5	90.9	84.2	13.8	60.3	2.6
Granite	86.0	85.5	81.3	80.6	83.4	15.3	62.9	1.4
WB-Mayville	89.5	82.0	75.9	84.0	82.9	15.1	60.9	1.6
TCG-Wildfire	84.4	88.6	76.0	77.8	81.7	14.5	59.9	2.8
Prosper	84.8	79.7	73.9	86.2	81.2	14.0	59.9	4.6
TCG-Climax	79.7	82.6	78.8	83.2	81.1	15.5	62.8	1.4
TCG-Cornerstone	84.9	86.1	74.2	77.8	80.7	15.1	60.6	1.5
SY Ingmar	84.1	80.5	74.5	81.6	80.2	14.9	61.3	1.8
Vantage	78.9	84.9	76.9	77.6	79.6	15.6	62.6	1.4
SY Valda	82.5	88.9	69.4	75.0	78.9	14.3	60.0	3.9
Linkert	80.4	79.8	78.1	77.5	78.9	15.3	60.7	1.5
TCG-Glennville	76.7	73.2	68.4	77.2	73.9	15.4	61.0	1.6
Barlow	61.4	71.1	68.0	75.1	68.9	15.2	61.4	4.9

¹All sites treated with fungicide.

² Score: 1=least and 9=most.