



# 2022 South Dakota Spring Wheat Variety Trial Results Wall

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**Cooperator:** Kent Kjerstad  
**Location:** 44.087500°,-102.328889°  
**Soil Type:** Santanta loam, 2-6% slopes  
**Previous crop:** spring wheat (unharvested)  
**Tillage:** no-till  
**Row spacing:** 10"  
**Seeding Rate:** 1.8 million PLS/acre  
**Fertilizer:**  
-Starter: 6 gal/acre 10-25-0-5S-.25Z  
-Other: 40 gal/acre 28-0-0 mid-row banded  
**Herbicide:**  
-Burndown: 16 oz/acre Widematch (fall-applied)  
-Post: none  
**Fungicide:** none  
**Date seeded:** 4/20/2022  
**Date harvested:** 8/9/2022



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Table 1. 2022 spring wheat variety performance trial results (average of 4 replications) at Wall, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are bolded and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2020 (bu/a)#	2021 (bu/a)	2022 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Cannon	28	1.0	54.3	16.1	<b>36.5</b>	<b>54.8</b>	<b>61.2</b>	<b>58.0</b>	<b>50.8</b>
WB9606	29	1.0	51.8	14.8	<b>39.0</b>	<b>54.4</b>	<b>54.6</b>	<b>54.5</b>	<b>49.3</b>
Lang-MN	30	1.0	54.8	17.4	34.5	52.4	<b>57.5</b>	<b>55.0</b>	<b>48.1</b>
SY Valda	28	1.0	52.0	16.4	34.4	<b>52.6</b>	<b>56.7</b>	<b>54.7</b>	<b>47.9</b>
Surpass	30	1.0	52.5	16.1	<b>35.2</b>	50.7	<b>54.1</b>	<b>52.4</b>	<b>46.7</b>
SY Rustler	26	1.0	53.4	16.7	33.0	<b>53.9</b>	50.9	<b>52.4</b>	<b>45.9</b>
MN-Rothsay	24	1.0	52.3	16.1	29.7	<b>53.5</b>	<b>53.6</b>	<b>53.6</b>	<b>45.6</b>
LCS Trigger	28	1.0	51.3	15.7	31.4	<b>53.9</b>	51.1	<b>52.5</b>	45.5
Ascend-SD	33	1.0	54.9	16.6	32.9	50.8	52.1	51.5	45.3
CP3099A	27	1.0	49.2	15.3	34.8	48.3	52.4	50.3	45.1
AP Murdock	29	1.0	54.0	16.5	31.6	46.5	<b>56.2</b>	51.4	44.8
LCS Buster	27	1.0	48.5	15.1	32.2	50.0	51.7	50.9	44.6
LCS Rebel	30	1.0	55.3	16.3	<b>40.7</b>	48.4	44.5	46.4	44.5
CP3530	27	1.0	50.9	17.5	<b>35.2</b>	47.2	49.7	48.4	44.0
Prevail	29	1.0	53.9	15.7	<b>35.9</b>	<b>53.0</b>	42.3	47.6	43.7
Driver	28	1.0	51.9	15.8	<b>35.5</b>	41.1	51.3	46.2	42.6
MS Ranchero	30	1.0	53.6	15.8	31.4	<b>52.9</b>	43.5	48.2	42.6
WB9719	28	1.0	54.2	15.8	30.2	39.0	<b>55.1</b>	47.0	41.4
ND Froberg	29	1.0	53.0	16.3	27.1	45.2	50.5	47.8	40.9
SY Ingmar	27	1.0	51.0	16.5	27.8	42.2	47.1	44.6	39.0
AP Gunsmoke CL2	28	1.0	52.5	17.0	-	45.7	<b>53.1</b>	49.4	-
MS Cobra	26	1.0	53.2	16.1	-	49.0	47.4	48.2	-
AP Revolution	28	1.0	53.5	16.1	-	40.6	42.3	41.4	-
CAG Justify	32	1.0	49.9	16.3	-	-	<b>54.8</b>	-	-
LCS Ascent	30	1.0	53.6	15.7	-	-	51.4	-	-
LCS Hammer AX	31	1.0	52.0	15.8	-	-	49.8	-	-
MS Charger	27	1.0	52.7	14.5	-	-	49.1	-	-
LCS Dual	31	1.0	53.1	15.1	-	-	48.2	-	-
CAG Reckless	31	1.0	53.8	15.6	-	-	45.8	-	-
<b>Trial Average#</b>	29	1.0	52.5	16.1	32.7	48.9	51.3	50.1	44.9
<b>LSD (0.05)†</b>	-	-	1.4	0.8	3.2	5.3	8.5	-	-
<b>C.V. %‡</b>	-	-	-	-	7.1	7.7	11.9	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

# Trial averages may include values from experimental lines that are not reported, yield is reported @13%M, protein is @12%M.

† Value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.