2022 South Dakota
Spring Wheat Variety Trial Results
Claire City

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Location: 45.806228°, -97.088530°

Soil Type: Peever clay loam, 2-6% slopes

Previous crop: soybeans

Tillage: conventional

Row spacing: 7"

Seeding Rate: 1.8 million PLS/acre

Fertilizer:

-Starter: 90 lb/acre 30-10-10

-Other: 130-50-10 broadcast preplant

Herbicide:

-Burndown: NR

-Post: 2 pt/acre Maestro 2EC + 1 pt/acre Widematch + 15 oz/acre Axial Bold + 2 pt/acre LV4

Fungicide: none

Date seeded: 5/26/2022

Date harvested: 8/30/2022

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Table 1. 2022 spring wheat variety performance trial results (average of 4 replications) at Claire City, 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 Trigger	29	1.0	60.3	14.9	**73.6**	**38.1**	**41.4**	**39.8**	**51.0**
Driver	29	1.0	60.6	16.7	71.1	**38.9**	**40.4**	**39.6**	**50.1**
Ascend-SD	30	1.0	60.1	17.1	70.5	**38.1**	**41.5**	**39.8**	**50.0**
WB9606	29	1.0	60.5	15.4	70.3	**40.4**	**38.1**	**39.3**	**49.6**
WB9719	25	1.0	62.3	16.8	**72.7**	**37.0**	**39.0**	**38.0**	**49.6**
SY Valda	28	1.0	59.9	17.2	**72.4**	33.9	**40.9**	**37.4**	**49.1**
LCS Buster	29	1.0	58.9	15.1	**72.6**	**37.1**	**37.3**	37.2	**49.0**
CP3530	30	1.0	58.9	17.3	**74.3**	34.8	34.8	34.8	48.0
Prevail	28	1.0	58.8	16.2	71.7	36.9	33.7	35.3	47.5
MN-Rothsay	25	1.0	59.7	17.2	68.5	36.1	34.7	35.4	46.4
ND Frohberg	28	1.0	59.2	17.3	69.8	**38.2**	30.8	34.5	46.3
MS Ranchero	27	1.0	59.5	16.3	66.6	35.6	35.6	35.6	45.9
Lang-MN	29	1.0	60.3	17.5	66.5	32.6	**37.9**	35.2	45.7
LCS Cannon	26	1.0	60.5	17.1	**72.4**	32.8	31.1	32.0	45.5
AP Murdock	26	1.0	58.5	16.9	**71.8**	30.7	32.2	31.4	44.9
SY Rustler	26	1.0	58.3	16.9	67.2	33.0	33.8	33.4	44.7
LCS Rebel	29	1.0	59.7	17.3	61.4	36.4	35.8	36.1	44.5
CP3099A	28	1.0	57.8	15.5	57.5	**38.8**	**36.6**	**37.7**	44.3
Surpass	28	1.0	58.4	17.4	66.1	33.1	30.9	32.0	43.3
SY Ingmar	26	1.0	60.1	17.7	66.9	34.5	24.4	29.4	41.9
AP Gunsmoke CL2	28	1.0	58.5	17.9	-	37.2	**39.3**	**38.3**	-
MS Cobra	25	1.0	58.6	17.3	-	32.0	31.6	31.8	-
AP Revolution	26	1.0	59.4	17.1	-	32.2	25.3	28.8	-
CAG Justify	29	1.0	57.7	16.3	-	-	35.5	-	-
LCS Dual	28	1.0	60.0	16.1	-	-	34.8	-	-
LCS Ascent	27	1.0	59.3	16.2	-	-	34.4	-	-
CAG Reckless	29	1.0	60.1	17.2	-	-	34.1	-	-
MS Charger	28	1.0	59.8	15.0	-	-	34.1	-	-
LCS Hammer AX	26	1.0	59.2	16.9	-	-	32.0	-	-
Trial Average#	28	1.0	59.3	16.8	68.2	36.0	36.4	35.3	46.9
LSD (0.05)†	-	-	0.9	0.5	5.7	3.7	3.9	-	-
C.V. %‡	-	-	-	-	5.9	7.4	7.7	-	-

* 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.