



2022 South Dakota Spring Wheat Variety Trial Results Sturgis

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Cooperator: South Dakota State University Sturgis Research Farm
Location: 44.424167°,-103.376111°
Soil Type: Nunn loam, 0-2% slopes
Previous crop: milo
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 + 32 oz/acre Roundup
-Post: none
Fungicide: none
Date seeded: 4/8/2022
Date harvested: 8/10/2022
Notes: This trial was damaged by hail on 6/7/22 & 6/12/2022.



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Table 1. 2022 spring wheat variety performance trial results (average of 4 replications) at Sturgis, 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	28	1.0	59.4	14.1	79.2	47.9	47.8	47.8	58.3
CP3099A	35	1.0	55.7	13.9	85.7	39.5	47.2	43.4	57.5
LCS Buster	28	1.0	57.3	13.5	81.2	43.0	48.0	45.5	57.4
WB9719	27	1.0	61.5	14.5	68.8	50.2	53.2	51.7	57.4
Driver	30	1.0	61.2	14.6	70.9	48.7	43.5	46.1	54.3
Ascend-SD	32	1.0	60.1	15.7	68.6	48.8	44.4	46.6	53.9
SY Ingmar	28	1.0	59.6	15.3	72.8	45.5	41.5	43.5	53.3
Lang-MN	30	1.0	60.8	15.8	70.7	43.5	45.4	44.5	53.2
MS Ranchero	28	1.0	59.3	13.9	65.7	49.6	43.9	46.7	53.1
LCS Rebel	30	1.0	61.5	15.4	63.8	49.5	45.9	47.7	53.0
WB9606	27	1.0	60.8	13.5	63.0	46.6	49.4	48.0	53.0
CP3530	31	1.0	58.9	15.8	65.0	47.9	43.7	45.8	52.2
LCS Cannon	27	1.0	61.2	14.5	61.6	51.5	43.1	47.3	52.1
ND Frohberg	32	1.0	61.2	15.7	67.0	42.9	44.8	43.9	51.6
SY Rustler	28	1.0	59.3	14.9	62.7	44.5	45.9	45.2	51.0
Surpass	29	1.0	59.2	14.8	60.9	44.2	46.5	45.3	50.5
Prevail	28	1.0	59.4	14.4	54.8	46.9	45.5	46.2	49.1
SY Valda	27	1.0	60.0	14.9	58.1	44.8	44.1	44.5	49.0
MN-Rothsay	24	1.0	61.8	15.4	58.6	42.8	42.3	42.5	47.9
AP Murdock	24	1.0	59.5	15.9	55.3	40.9	38.1	39.5	44.8
MS Cobra	29	1.0	61.4	15.3	-	49.9	45.7	47.8	-
AP Gunsmoke CL2	27	1.0	60.0	16.1	-	50.5	43.0	46.7	-
AP Revolution	25	1.0	59.3	15.4	-	46.4	40.3	43.4	-
LCS Ascent	27	1.0	62.1	14.3	-	-	48.7	-	-
MS Charger	26	1.0	59.8	13.5	-	-	48.4	-	-
LCS Hammer AX	28	1.0	60.2	14.1	-	-	48.4	-	-
LCS Dual	28	1.0	60.5	13.8	-	-	48.0	-	-
CAG Justify	28	1.0	59.3	15.1	-	-	46.2	-	-
CAG Reckless	30	1.0	61.8	14.7	-	-	46.1	-	-
Trial Average#	28	1.0	60.0	14.9	65.0	45.5	45.6	45.6	52.6
LSD (0.05)†	-	-	1.1	0.5	6.9	5.4	5.5	-	-
C.V. %‡	-	-	-	-	7.6	8.4	8.6	-	-

* 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 (\geq 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.