



2022 South Dakota Spring Wheat Variety Trial Results Draper

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Cooperator: Paul Patterson
Location: 43.850241°,-100.546423°
Soil Type: Promise clay, 3-6% slopes
Previous crop: sunflowers
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: NR
-Post: none
Fungicide: none
Date seeded: 4/21/2022
Date harvested: 8/8/2022
Notes: Very dry throughout the growing season.



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Table 1. 2022 spring wheat variety performance trial results (average of 4 replications) at Draper, 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	24	1.0	59.2	12.9	53.8	28.7	61.0	44.8	47.8
Ascend-SD	26	1.0	57.4	12.9	59.7	24.3	59.4	41.8	47.8
LCS Trigger	26	1.0	57.1	12.4	60.4	26.0	54.7	40.4	47.1
Prevail	25	1.0	57.1	12.7	55.6	27.0	56.4	41.7	46.3
WB9606	27	1.0	56.5	12.8	53.5	22.8	61.6	42.2	45.9
CP3530	25	1.0	56.7	13.0	57.0	26.7	54.0	40.4	45.9
SY Valda	24	1.0	56.6	12.7	56.1	26.0	54.5	40.3	45.5
Lang-MN	26	1.0	57.5	13.2	53.0	23.8	57.4	40.6	44.7
Surpass	24	1.0	56.7	12.8	53.2	28.5	51.9	40.2	44.5
LCS Buster	25	1.0	53.5	12.4	58.4	20.3	53.9	37.1	44.2
MS Ranchero	24	1.0	56.6	12.9	53.7	24.3	54.6	39.4	44.2
Driver	26	1.0	59.0	12.9	55.2	28.3	48.8	38.5	44.1
AP Murdock	24	1.0	56.7	12.8	53.0	19.1	57.9	38.5	43.3
SY Rustler	25	1.0	56.3	12.6	52.8	22.4	50.4	36.4	41.8
MN-Rothsay	23	1.0	57.2	12.5	53.7	21.0	50.7	35.9	41.8
LCS Rebel	27	1.0	58.8	13.0	46.3	26.9	49.7	38.3	40.9
CP3099A	25	1.0	50.7	12.7	52.1	13.7	56.1	34.9	40.6
SY Ingmar	25	1.0	56.6	13.2	49.2	22.4	49.9	36.2	40.5
ND Froberg	26	1.0	57.5	12.7	46.6	18.9	56.1	37.5	40.5
WB9719	25	1.0	57.8	12.9	45.3	22.4	49.5	35.9	39.1
AP Gunsmoke CL2	26	1.0	56.6	13.0	-	24.8	55.1	39.9	-
AP Revolution	26	1.0	57.4	13.2	-	22.5	53.2	37.8	-
MS Cobra	23	1.0	57.2	12.8	-	21.9	50.4	36.1	-
CAG Reckless	26	1.0	57.8	12.8	-	-	59.6	-	-
CAG Justify	24	1.0	54.8	12.6	-	-	58.0	-	-
LCS Ascent	25	1.0	57.4	12.6	-	-	56.7	-	-
LCS Hammer AX	24	1.0	56.3	12.5	-	-	55.5	-	-
MS Charger	24	1.0	57.1	12.5	-	-	53.9	-	-
LCS Dual	25	1.0	57.8	12.6	-	-	53.4	-	-
Trial Average#	25	1.0	56.7	12.8	52.3	24.2	54.1	38.9	43.8
LSD (0.05)†	-	-	1.3	0.6	3.3	5.0	6.2	-	-
C.V. %‡	-	-	-	-	5.6	14.8	8.1	-	-

* 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.