



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2022 South Dakota Spring Wheat Variety Trial Results Northville

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Cooperator: Nutrien Ag Solutions - Northville, SD
Location: 45.158545°, -98.567070°
Soil Type: Harmony-Aberdeen silty clay loams, 0-2% slopes
Previous crop: soybeans
Tillage: no-till
Row spacing: 8"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 30 gal/acre 28-0-0 preplant broadcast
Herbicide:
-Burndown: NR
-Post: 2 pt/acre Maestro 2EC + 1 pt/acre WideMatch + 15 oz/acre Axial Bold
Fungicide: none
Date seeded: 5/19/2022
Date harvested: 8/25/2022



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Table 1. 2022 spring wheat variety performance trial results (average of 4 replications) at Northville, 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 Buster	29	2.0	54.6	13.9	85.2	74.3	40.8	57.6	66.8
LCS Trigger	28	1.8	58.6	14.0	86.4	59.2	51.8	55.5	65.8
SY Valda	28	2.0	56.6	15.4	81.3	63.2	43.4	53.3	62.6
Ascend-SD	28	1.8	56.9	14.9	80.8	54.5	45.7	50.1	60.3
CP3099A	29	2.3	54.0	14.5	80.7	62.6	35.6	49.1	59.6
WB9606	28	1.5	56.4	14.7	81.4	58.5	38.1	48.3	59.3
Driver	28	2.3	58.4	15.7	76.8	55.4	43.0	49.2	58.4
MN-Rothsay	25	1.3	56.0	15.5	81.7	54.2	38.5	46.3	58.1
WB9719	26	1.5	57.4	15.1	82.5	53.4	38.0	45.7	58.0
CP3530	29	3.0	55.5	16.1	77.0	57.0	40.0	48.5	58.0
SY Ingmar	27	1.5	56.7	16.4	74.5	56.8	41.4	49.1	57.6
AP Murdock	25	1.8	56.0	15.2	75.4	52.1	41.3	46.7	56.3
Prevail	27	1.8	55.3	15.2	74.4	52.5	39.5	46.0	55.5
LCS Cannon	26	1.8	55.1	16.7	72.2	58.1	34.2	46.1	54.8
Lang-MN	27	1.8	56.3	16.5	71.5	54.0	39.0	46.5	54.8
SY Rustler	26	1.5	54.8	16.1	70.0	57.8	34.0	45.9	53.9
ND Froberg	28	2.8	56.3	16.3	74.5	46.4	38.6	42.5	53.2
LCS Rebel	28	3.0	56.4	16.7	74.2	50.6	33.6	42.1	52.8
Surpass	28	3.0	55.8	15.8	67.0	46.0	40.0	43.0	51.0
MS Ranchero	27	2.0	53.0	16.2	68.6	51.2	33.2	42.2	51.0
AP Gunsmoke CL2	27	2.8	56.1	16.2	-	60.6	37.6	49.1	-
AP Revolution	25	1.8	56.3	16.0	-	53.7	38.8	46.3	-
MS Cobra	25	2.0	54.4	16.3	-	50.5	34.4	42.5	-
CAG Justify	28	3.0	54.3	15.3	-	-	41.5	-	-
CAG Reckless	28	3.0	56.3	15.7	-	-	41.3	-	-
MS Charger	26	2.8	55.7	14.1	-	-	40.3	-	-
LCS Dual	28	3.0	56.0	15.8	-	-	35.7	-	-
LCS Hammer AX	25	1.5	54.4	15.6	-	-	33.3	-	-
LCS Ascent	26	3.0	54.6	15.2	-	-	32.4	-	-
Trial Average#	27	2.1	55.6	15.7	75.0	55.5	39.2	47.5	57.4
LSD (0.05)†	-	-	0.9	0.5	3.1	3.5	2.3	-	-
C.V. %‡	-	-	-	-	3.0	3.9	4.3	-	-

* 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.