



**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 Volga

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Cooperator: South Dakota State University Volga Research Farm
Location: 44.302398°, -96.918976°
Soil Type: Brandt silty clay loam, 0-2% slopes
Previous crop: soybeans
Tillage: min-till
Row spacing: 8"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 100-30-30 broadcast preplant
Herbicide:
-Burndown: none
-Post: 2 pt/acre Maestro 2EC + 15 oz/acre Axial Bold
Fungicide: none
Date seeded: 4/21/2022
Date harvested: 8/5/2022



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Table 1. 2022 spring wheat variety performance trial results (average of 4 replications) at Brookings, 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	31	1.0	57.0	15.7	60.4	74.6	57.3	65.9	64.1
LCS Buster	31	1.0	54.1	15.0	58.4	74.6	55.4	65.0	62.8
Ascend-SD	33	1.0	56.6	17.0	59.7	65.8	59.9	62.9	61.8
WB9606	30	1.0	56.4	15.3	53.5	71.2	56.8	64.0	60.5
Driver	32	1.0	57.8	15.9	55.2	65.6	59.6	62.6	60.1
SY Valda	29	1.0	55.8	16.1	56.1	68.3	55.5	61.9	60.0
LCS Cannon	30	1.0	58.6	16.2	53.8	63.0	62.5	62.7	59.8
Prevail	30	1.0	58.0	15.3	55.6	58.2	62.9	60.5	58.9
SY Rustler	30	1.0	55.7	16.2	52.8	62.2	60.3	61.3	58.4
CP3530	33	1.0	57.0	17.0	57.0	61.8	56.5	59.1	58.4
MN-Rothsay	28	1.0	56.9	16.3	53.7	64.7	55.7	60.2	58.0
AP Murdock	29	1.0	55.6	16.2	53.0	62.6	56.8	59.7	57.5
Lang-MN	31	1.0	57.9	16.9	53.0	64.8	53.9	59.4	57.3
CP3099A	32	1.0	50.3	15.9	52.1	73.1	45.4	59.2	56.9
WB9719	28	1.0	57.5	16.3	45.3	66.9	57.7	62.3	56.6
Surpass	30	1.0	56.8	15.8	53.2	59.7	56.9	58.3	56.6
SY Ingmar	29	1.0	56.3	16.4	49.2	65.1	54.7	59.9	56.3
MS Ranchero	31	1.0	56.3	16.1	53.7	59.0	53.6	56.3	55.4
LCS Rebel	32	1.0	57.7	16.7	46.3	62.4	55.3	58.9	54.7
ND Froberg	32	1.0	57.0	16.0	46.6	63.5	53.6	58.5	54.5
AP Gunsmoke CL2	31	1.0	55.6	17.1	-	68.2	57.4	62.8	-
MS Cobra	29	1.0	56.8	16.0	-	63.2	57.7	60.4	-
AP Revolution	29	1.0	55.5	16.2	-	61.7	57.7	59.7	-
LCS Ascent	31	1.0	57.8	15.4	-	-	62.3	-	-
CAG Reckless	31	1.0	57.6	16.0	-	-	60.4	-	-
MS Charger	31	1.0	55.7	15.0	-	-	60.1	-	-
LCS Dual	31	1.0	56.4	15.5	-	-	59.3	-	-
LCS Hammer AX	29	1.0	55.9	16.2	-	-	59.1	-	-
CAG Justify	32	1.0	54.3	16.4	-	-	57.4	-	-
Trial Average#	30	1.0	56.3	16.2	52.3	64.4	57.4	60.9	58.4
LSD (0.05)†	-	-	0.9	1.9	3.3	3.5	2.6	-	-
C.V. %‡	-	-	-	-	5.6	3.9	3.2	-	-

* 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.