South Dakota State University
College of Agriculture, Food and Environmental Sciences

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

2023 South Dakota Spring Wheat Variety Trial Results Volga

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Cooperator:	South Dakota State University Farm Department
Location:	44.302324°, -96.921010°
Soil Type:	Brandt silty clay loam, 0-2% slopes
Previous crop:	soybeans
Tillage:	min-till
Row spacing:	8"
Seeding Rate:	1.8 million PLS/acre
Fertilizer:	
-Starter:	90 lb/acre 30-10-10
-Other:	100-30-30 broadcast preplant
Herbicide:	
-Burndown:	none
-Post:	1 pt/acre Bromac + pt/acre PerfectMatch
Fungicide:	none
Date seeded:	4/24/2023
Date harvested:	8/2/2023

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Volga

Table 1. 2023 spring wheat variety performance trial results (average of 4 replications) at Volga, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are boldfaced and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2021 (bu/a)#	2022 (bu/a)	2023 (bu/a)	2-year (bu/a)	3-year (bu/a)
Brawn-SD	19	1.0	62.1	14.6	**71.3**	**65.7**	49.2	**57.5**	**62.1**
LCS Trigger	19	1.0	60.2	14.0	**74.6**	57.3	**51.7**	**54.5**	**61.2**
LCS Buster	18	1.0	58.8	13.8	**74.6**	55.4	**52.4**	53.9	**60.8**
WB9606	20	1.0	60.8	15.9	**71.2**	56.8	50.8	53.8	**59.6**
SY Valda	19	1.0	60.2	15.3	**68.3**	55.5	**52.9**	54.2	**58.9**
CP3099A	23	1.0	58.9	13.5	**73.1**	45.4	**54.7**	50.0	**57.7**
AP Gunsmoke CL2	19	1.0	59.9	17.0	68.2	57.4	47.4	52.4	57.6
AP Murdock	18	1.0	59.1	16.4	62.6	56.8	51.0	53.9	56.8
LCS Cannon	19	1.0	61.6	16.2	63.0	**62.5**	44.3	53.4	56.6
Driver	18	1.0	60.4	16.2	65.6	**59.6**	44.4	52.0	56.5
Ascend-SD	18	1.0	59.2	15.6	65.8	**59.9**	43.7	51.8	56.5
WB9719	19	1.0	60.8	17.1	66.9	57.7	44.3	51.0	56.3
Prevail	19	1.0	59.0	16.4	58.2	**62.9**	44.9	53.9	55.3
AP Revolution	18	1.0	59.5	16.5	61.7	57.7	46.0	51.8	55.1
MN-Rothsay	17	1.0	59.2	16.3	64.7	55.7	43.3	49.5	54.6
MS Cobra	19	1.0	59.4	17.1	63.2	57.7	41.6	49.7	54.2
Surpass	19	1.0	60.3	16.9	59.7	56.9	43.8	50.3	53.5
LCS Dual	21	1.0	59.9	15.2	-	59.3	**54.4**	**56.9**	-
MS Charger	20	1.0	59.7	14.7	-	**60.1**	**51.7**	**55.9**	-
CAG Reckless	20	1.0	59.9	16.5	-	**60.4**	**51.1**	**55.7**	-
CAG Justify	20	1.0	57.5	15.8	-	57.4	**52.4**	**54.9**	-
LCS Hammer AX	19	1.0	59.1	15.9	-	59.1	50.0	**54.6**	-
LCS Boom	20	1.0	61.2	16.5	-	**60.5**	48.6	**54.5**	-
LCS Ascent	20	1.0	60.5	16.3	-	**62.3**	46.2	54.2	-
PFS Buns	19	1.0	56.2	15.9	-	-	**54.4**	-	-
MN-Torgy	17	1.0	61.0	16.5	-	-	**52.3**	-	-
WB9590	17	1.0	59.8	17.8	-	-	48.0	-	-
ND Heron	21	1.0	61.1	17.1	-	-	46.8	-	-
CAG Recoil	18	1.0	56.7	15.7	-	-	45.8	-	-
CP3188	21	1.0	58.4	14.3	-	-	45.0	-	-
AP Venom	17	1.0	56.7	16.2	-	-	43.0	-	-
Trial Average#	19	1.0	59.5	16.0	64.4	57.4	47.3	53.3	57.3
LSD (0.05)†	-	-	0.9	0.9	3.5	2.6	7.4	-	-
C.V. %‡	-	-	-	-	3.9	3.2	11.1	-	-

* 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.