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

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

2024 South Dakota Spring Wheat Variety Trial Results Volga

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Cooperator:	South Dakota State University Farm Department
Location:	44.298853°, -96.920729°
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:	2 pt/acre Bronate
Fungicide:	none
Date seeded:	4/12/2024
Date harvested:	8/6/2024

S-0002-2024-04-SW-Volga

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Volga

Table 1. 2024 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 shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2022 (bu/a)#	2023 (bu/a)	2024 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS TRIGGER	28	1.1	58.0	13.8	57.3	**51.7**	**73.8**	**62.7**	**60.9**
MS CHARGER	28	1.1	56.7	14.0	**60.1**	**51.7**	**69.5**	**60.6**	**60.4**
BRAWN-SD	28	1.0	59.1	14.4	**65.7**	49.2	**65.7**	**57.5**	**60.2**
ASCEND-SD	29	1.0	57.5	15.4	**59.9**	43.7	**69.7**	**56.7**	**57.8**
LCS BUSTER	28	1.1	55.6	13.5	55.4	**52.4**	**65.2**	**58.8**	**57.7**
LCS ASCENT	28	1.1	58.0	15.2	**62.3**	46.2	**64.3**	55.3	**57.6**
SY VALDA	27	1.0	57.2	15.0	55.5	**53.0**	**61.5**	**57.2**	**56.6**
AP REVOLUTION	26	1.0	57.4	15.5	57.7	46.0	**65.2**	**55.6**	**56.3**
CAG JUSTIFY	29	1.1	55.0	15.4	57.4	**52.4**	58.9	**55.7**	**56.3**
CAG RECKLESS	29	1.0	57.3	15.7	**60.4**	51.1	57.0	54.0	56.1
AP MURDOCK	26	1.0	56.5	15.4	56.8	51.0	58.2	54.6	55.3
LCS BOOM	27	1.0	58.6	15.8	**60.5**	48.6	55.7	52.1	54.9
PREVAIL	27	1.0	57.8	15.1	**62.9**	44.9	55.6	50.3	54.5
LCS CANNON	27	1.0	59.0	15.7	**62.5**	44.3	56.1	50.2	54.3
MS COBRA	27	1.2	57.2	15.7	57.7	41.6	**63.3**	52.4	54.2
LCS DUAL	29	1.0	56.5	14.8	59.3	**54.4**	48.3	51.4	54.0
AP GUNSMOKE CL2	28	1.3	57.0	16.2	57.4	47.4	57.1	52.2	53.9
SURPASS	27	1.0	57.6	15.8	56.9	43.8	**60.7**	52.2	53.8
MN-ROTHSAY	25	1.0	57.0	15.4	55.7	43.3	59.6	51.4	52.8
DRIVER	28	1.0	57.1	15.3	59.6	44.4	52.9	48.7	52.3
LCS HAMMER AX	27	1.0	55.0	15.3	59.1	50.0	47.4	48.7	52.2
WB9606	27	1.0	57.5	14.8	56.8	50.9	48.5	49.7	52.1
PFS BUNS	26	1.0	52.8	15.6	42.9	**54.4**	55.2	54.8	50.9
CP3099A	30	1.0	50.8	13.1	45.4	**54.7**	40.7	47.7	46.9
MN-TORGY	26	1.0	58.2	16.1	-	**52.3**	60.2	**56.3**	-
WB9590	25	1.0	57.4	16.5	-	48.0	60.2	54.1	-
CAG RECOIL	25	1.0	55.0	15.5	-	45.8	54.8	50.3	-
CP3188	29	1.6	55.3	13.6	-	45.0	55.8	50.4	-
CP3055	28	1.0	52.0	14.1	-	-	**62.6**	-	-
ND THRESHER	28	1.2	55.8	15.9	-	-	**60.7**	-	-
MS NOVA	27	1.0	57.6	15.8	-	-	59.4	-	-
CAG CERES	27	1.0	57.5	15.1	-	-	59.0	-	-
ND STAMPEDE	29	1.7	57.3	14.3	-	-	55.9	-	-
CP3322	28	1.0	51.6	14.5	-	-	49.0	-	-
Trial Average#	27.6	1.0	56.7	15.3	57.3	47.9	58	53.1	55.1
LSD (0.05)†	-	-	2.2	1.0	2.6	7.5	5.5	4.6	3.1
C.V. %‡	-	-	-	-	3.2	11.3	6.7	8.9	7.0

* 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.