



**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 Winter Wheat Variety Trial Results Vivian

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Cooperator: Ryan Larson, c/o Logan Reuman

Location: 43.978714°, -100.185329°

Soil Type: Millboro silty clay, 3-6% slopes

Previous crop: oats

Tillage: no-till

Row spacing: 8"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

- Starter:
- Other: 120 lb/acre of N as urea

Herbicide:

- Burndown: 6 oz Pizarro, 32 oz Glyphosate
- Post: 10 oz/acre Avaris, 16 oz/acre Widematch, 8 oz/acre Wildcard

Fungicide:

Date seeded: 10/2/2023

Date harvested: 7/24/2024



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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2024 at Vivian, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	Height (inches)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2022 (bu/a)#	2023 (bu/a)	2024 (bu/a)	2-year (bu/a)	3-year (bu/a)
WB4422	31.5	2.0	61.4	11.3	105.9	60.5	80.1	70.3	82.2
AP Clair	31.3	1.3	61.5	11.4	103.4	58.6	80.7	69.6	80.9
SY Wolverine	28.5	1.3	60.2	10.6	104.5	57.4	77.1	67.2	79.7
SD Pheasant	34.3	2.0	61.2	11.1	87.8	64.2	83.9	74.0	78.6
CP7909	32.5	2.5	60.2	10.7	100.2	53.4	82.0	67.7	78.5
CP7017AX	32.5	2.0	60.7	10.7	91.1	59.2	84.7	71.9	78.3
WB4309	32.8	1.8	59.7	11.2	96.2	58.5	78.2	68.3	77.6
Byrd CL Plus	36.0	1.5	59.8	10.4	89.3	59.3	82.0	70.7	76.9
SD Andes	32.8	1.0	61.6	11.2	84.0	66.7	79.4	73.0	76.7
Draper	33.8	1.0	60.0	11.3	86.1	58.2	82.3	70.3	75.6
Kivari AX	35.3	2.5	58.8	9.8	84.2	56.1	85.5	70.8	75.3
Winner	33.3	1.0	60.8	10.9	86.9	56.5	81.3	68.9	74.9
Ideal	33.5	1.5	60.7	10.9	79.1	62.9	82.4	72.7	74.8
SD Midland	35.0	1.0	60.3	10.5	87.0	60.1	77.2	68.6	74.8
CP7869	31.8	2.0	60.6	10.9	84.5	60.5	76.5	68.5	73.8
Expedition	35.3	2.0	61.2	11.3	86.6	52.3	79.3	65.8	72.8
AP Bigfoot	30.8	1.3	61.0	11.9	88.8	51.7	77.0	64.3	72.5
LCS Helix AX	29.8	1.8	60.6	11.3	89.6	53.8	73.9	63.8	72.4
Crescent AX	30.8	2.3	61.0	11.2	89.3	49.7	78.0	63.8	72.3
LCS Chrome	35.0	1.5	60.9	11.8	87.3	55.9	72.8	64.3	72.0
MS Maverick	32.5	2.0	61.0	11.5	79.9	54.2	80.9	67.5	71.6
WB4510CLP	32.3	1.0	61.7	10.6	74.2	64.4	74.9	69.7	71.2
CP7266AX	33.5	2.0	60.0	11.0	86.5	49.7	75.4	62.6	70.5
MS Sundown	34.8	2.0	60.6	11.2	-	54.2	83.5	68.8	-
SY Wolf	31.3	1.0	60.7	11.5	-	54.5	74.7	64.6	-
AP 24AX	35.3	1.0	60.1	10.5	-	-	89.8	-	-
LCS Warbird AX	32.3	2.3	61.1	11.2	-	-	82.1	-	-
LCS Julep	32.0	1.3	61.8	11.2	99.1	-	81.5	-	-
CO18042RA	32.8	2.3	59.1	10.2	-	-	80.5	-	-
21Nord-160	33.8	1.0	59.2	10.8	-	-	75.8	-	-
LCS Jet	27.5	1.0	56.2	12.1	-	-	61.3	-	-
LCS Missile	26.8	1.0	52.9	13.4	-	-	43.9	-	-
Trial Average#	32.6	1.5	60.2	11.0	89.8	57.5	78.9	68.6	75.6
LSD (0.05) †	2.0	0.5	0.9	0.5	9.0	6.3	6.7	-	-
C.V. %‡	4.5	21.5	1.0	3.4	7.2	7.9	6.1	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.

Corrected to 13% moisture. Note: Trial averages may include values from experimental lines that are not reported.

† 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.