



**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 Platte

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Location: 43.543174°, -99.061660°

Soil Type: Highmore-Mobridge silt loams, 0-4% slopes

Previous crop: soybeans

Tillage: no-till

Row spacing: 8"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 9 lbs/acre 30-10-10

- Other: 78 lbs of N/acre of UAN in spring applied as liquid broadcast

Herbicide:

- Burndown: not reported

- Post: 15 oz/acre HuskieFX and 3 oz Stratego Yield

Fungicide: 6.5 oz/acre Prosaro (at flowering)

Date seeded: 10/4/2023

Date harvested: 7/25/2024



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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2024 at Platte, 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	36.3	1.3	61.1	12.8	53.8	-	99.8	-	76.8
SD Pheasant	37.5	2.0	60.0	11.9	55.8	-	95.3	-	75.6
CP7017AX	33.3	1.8	59.7	12.4	51.6	-	97.1	-	74.4
Byrd CL Plus	36.3	1.3	59.9	12.0	52.7	-	94.1	-	73.4
SD Midland	38.0	1.0	59.6	11.9	50.1	-	95.8	-	73.0
Draper	34.0	1.0	58.9	12.9	49.7	-	96.1	-	72.9
SD Andes	34.5	1.0	60.8	12.1	50.1	-	94.7	-	72.4
AP Clair	32.3	1.0	60.0	12.2	49.1	-	94.6	-	71.8
Winner	37.0	1.5	59.2	12.1	46.6	-	95.6	-	71.1
CP7869	34.0	2.3	59.1	12.2	49.6	-	90.5	-	70.1
SY Wolverine	33.0	1.3	59.0	12.4	47.9	-	91.1	-	69.5
WB4309	36.3	1.8	59.0	12.2	44.8	-	93.3	-	69.0
MS Maverick	35.5	1.8	59.8	12.8	48.2	-	88.1	-	68.2
Ideal	35.8	1.3	59.6	12.5	46.8	-	89.5	-	68.2
WB4510CLP	34.5	1.0	59.8	12.7	51.3	-	84.9	-	68.1
Crescent AX	35.5	2.3	59.8	12.8	48.0	-	87.6	-	67.8
AP Bigfoot	33.0	1.0	58.9	12.7	51.0	-	84.2	-	67.6
CP7909	35.5	2.0	59.4	12.1	46.1	-	85.9	-	66.0
Expedition	36.0	2.5	60.3	13.0	48.0	-	84.1	-	66.0
LCS Julep	35.3	1.0	60.4	13.5	47.8	-	83.9	-	65.8
Kivari AX	36.3	3.3	57.7	12.3	48.6	-	81.9	-	65.2
LCS Helix AX	35.0	1.8	59.3	13.0	43.7	-	82.5	-	63.1
CP7266AX	36.0	1.5	57.9	13.0	43.8	-	79.4	-	61.6
LCS Chrome	36.5	1.3	59.4	13.2	44.7	-	74.1	-	59.4
AP 24AX	33.8	1.3	57.9	12.6	-	-	91.5	-	-
CO18042RA	33.8	2.5	58.5	12.2	-	-	88.4	-	-
LCS Warbird AX	33.8	2.3	59.6	13.2	-	-	87.3	-	-
SY Wolf	33.3	1.0	59.4	12.6	-	-	84.7	-	-
MS Sundown	37.3	2.3	59.7	13.2	-	-	84.4	-	-
21Nord-160	35.0	1.0	56.7	12.6	-	-	76.1	-	-
LCS Jet	26.0	1.0	55.6	13.4	-	-	47.4	-	-
LCS Missile	27.8	1.0	46.5	15.4	-	-	33.4	-	-
Trial Average#	34.8	1.5	58.9	12.6	49.0	-	86.1	-	69.1
LSD (0.05)†	1.8	0.5	0.9	0.7	3.3	-	9.0	-	-
C.V. %‡	3.7	25.1	1.1	3.8	4.8	-	7.4	-	-

* 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 (\geq 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.

§Reported 3-year yields are actually an average of 2022 and 2024 as the location was not harvested in 2023.