



**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 Pierre

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Cooperator: Dakota Lakes Reseach Farm, Sam Ireland, manager

Location: 44.292795°, -99.990924°

Soil Type: Millboro silt loam, 0-3% slopes

Previous crop: pea

Tillage: no-till

Row spacing: 7.5"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 10 lbs/acre 10-34-0

- Other: 26.1-0-0-2.6S @ 25 gal/acre (UAN (90%) + ATS (10%))

Herbicide:

- Burndown: Glyphosate @ 26 oz/acre and Curtial-M @26 oz/acre

- Post: not recorded

Fungicide: none

Date seeded: 9/19/2023

Date harvested: 7/17/2024



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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2024 at Pierre, 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)
WB4309	34.8	1.8	61.6	11.2	53.9	58.2	93.7	76.0	68.6
SD Andes	33.8	1.3	63.3	11.2	54.7	54.1	95.9	75.0	68.2
Winner	34.5	2.0	61.8	11.1	50.3	52.6	98.2	75.4	67.0
SY Wolverine	33.5	2.8	61.2	11.2	62.1	52.2	85.2	68.7	66.5
WB4422	34.3	2.3	62.1	11.8	56.5	52.7	89.0	70.9	66.1
SD Midland	34.8	1.3	62.3	11.4	52.0	55.7	90.5	73.1	66.1
SD Pheasant	34.0	3.3	60.9	11.0	54.8	58.3	84.3	71.3	65.8
MS Maverick	34.3	2.8	62.3	11.9	54.0	54.0	89.2	71.6	65.7
CP7017AX	33.5	3.3	61.3	10.8	58.4	47.1	91.1	69.1	65.5
LCS Helix AX	35.8	3.0	61.6	11.3	64.7	42.3	87.4	64.9	64.8
Crescent AX	36.0	3.5	61.5	11.4	66.2	40.8	83.7	62.2	63.5
Kivari AX	34.3	3.8	60.5	10.4	53.9	47.6	87.6	67.6	63.0
Draper	34.5	2.3	61.0	12.2	54.3	48.5	85.7	67.1	62.8
LCS Chrome	36.0	2.3	61.3	11.8	49.4	50.1	87.2	68.6	62.2
CP7869	34.8	2.5	61.2	11.2	50.5	46.7	89.2	67.9	62.1
Byrd CL Plus	35.8	2.3	61.2	11.1	49.2	45.4	91.2	68.3	62.0
Ideal	36.5	2.8	62.0	11.3	44.8	50.3	87.4	68.8	60.8
AP Bigfoot	34.8	3.3	61.0	11.4	55.3	40.1	85.1	62.6	60.2
AP Clair	33.8	2.3	62.0	11.4	49.0	44.8	86.9	65.8	60.2
CP7909	34.8	3.8	60.6	11.2	48.3	49.9	80.5	65.2	59.5
CP7266AX	37.0	3.5	60.9	12.3	42.1	45.9	83.5	64.7	57.2
WB4510CLP	34.8	2.0	62.9	11.6	43.5	47.4	78.9	63.2	56.6
Expedition	35.8	3.3	61.0	11.6	43.6	46.3	77.6	62.0	55.8
MS Sundown	37.3	3.5	61.0	11.4	-	49.5	85.0	67.2	-
SY Wolf	32.3	1.8	62.2	11.7	-	48.5	82.8	65.7	-
AP 24AX	35.8	1.5	60.2	10.8	-	-	95.6	-	-
LCS Warbird AX	34.0	3.3	61.6	11.7	-	-	86.8	-	-
LCS Julep	34.8	2.0	62.6	12.0	52.7	-	84.4	-	-
CO18042RA	34.0	3.8	59.7	11.0	-	-	83.6	-	-
21Nord-160	33.8	2.0	60.6	10.8	-	-	78.9	-	-
LCS Jet	30.3	1.0	59.6	12.2	-	-	69.7	-	-
LCS Missile	29.8	1.3	60.8	12.0	-	-	66.8	-	-
Trial Average#	34.6	2.5	61.3	11.3	50.9	49.4	86.2	68.5	63.0
LSD (0.05)†	2.1	-	0.6	0.8	5.2	8.6	6.9	-	-
C.V. %‡	4.4	-	0.8	5.0	7.3	12.4	5.7	-	-

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

Corrected to 13% moisture.

† 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.