



**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 Selby

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Location: 45.4558474°, -100.0590146°

Soil Type: Highmore silt loam, cool, 2-6% slopes

Previous crop: flax

Tillage: no-till

Row spacing: 7.5"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

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

- Other: 250 lb/acre urea + 50 lb/acre AMS broadcast

Herbicide:

- Burndown: not reported

- Post: 24 oz/acre Hat Trick

Fungicide: 3 oz/acre magistrate, 1.5 oz tombstone

Date seeded: 9/14/2023

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 Selby, 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)
SD Pheasant	35.5	3.3	62.0	12.2	109.3	-	108.5	-	108.9
SD Andes	34.0	1.0	63.3	12.2	106.4	-	109.5	-	108.0
Crescent AX	37.5	2.8	62.6	11.4	100.9	-	111.9	-	106.4
Ideal	36.8	2.0	61.9	11.8	99.6	-	112.0	-	105.8
CP7909	37.3	2.8	62.5	11.3	99.4	-	111.9	-	105.7
WB4422	35.3	1.0	63.4	11.5	97.9	-	113.3	-	105.6
CP7017AX	34.0	2.3	61.9	11.0	92.8	-	117.9	-	105.3
Byrd CL Plus	37.3	2.3	61.6	11.5	91.1	-	115.5	-	103.3
MS Maverick	34.5	2.8	63.2	11.8	93.8	-	110.0	-	101.9
WB4309	37.3	1.5	62.3	12.3	88.9	-	114.2	-	101.6
SY Wolverine	34.8	1.8	62.5	11.4	90.3	-	111.7	-	101.0
AP Bigfoot	34.5	1.3	62.3	11.2	91.8	-	108.9	-	100.3
Kivari AX	36.0	3.5	61.1	10.5	92.4	-	108.1	-	100.2
WB4510CLP	36.0	1.0	63.8	11.0	86.4	-	112.4	-	99.4
Draper	33.8	1.3	61.3	12.3	90.8	-	107.1	-	99.0
AP Clair	34.0	1.3	62.2	11.7	89.1	-	108.6	-	98.9
LCS Helix AX	37.8	2.3	62.4	11.4	87.7	-	108.7	-	98.2
LCS Julep	36.0	1.3	62.4	11.8	85.7	-	110.7	-	98.2
SD Midland	36.5	1.0	62.0	11.5	85.7	-	110.1	-	97.9
CP7869	35.0	2.5	62.0	12.1	83.0	-	112.3	-	97.6
CP7266AX	36.5	2.5	61.6	11.9	79.9	-	113.1	-	96.5
LCS Chrome	36.5	1.3	62.8	12.3	88.4	-	103.7	-	96.1
Expedition	37.8	2.8	62.7	12.1	86.0	-	105.3	-	95.7
Winner	37.3	1.5	62.4	12.6	81.4	-	109.7	-	95.6
AP 24AX	37.3	1.5	61.5	11.6	-	-	119.6	-	-
SY Wolf	34.5	1.0	62.0	12.2	-	-	109.5	-	-
LCS Warbird AX	34.8	2.8	62.7	12.5	-	-	109.0	-	-
CO18042RA	35.0	3.8	61.3	11.2	-	-	106.9	-	-
MS Sundown	37.8	3.5	62.3	12.7	-	-	105.5	-	-
LCS Jet	30.5	1.0	61.8	12.3	-	-	100.9	-	-
21Nord-160	35.8	1.0	60.7	11.8	-	-	98.0	-	-
LCS Missile	32.3	1.0	61.0	12.4	-	-	97.5	-	-
Trial Average#	35.6	1.9	62.1	11.8	89.3	-	110.4	-	100.9
LSD (0.05) †	1.7	-	0.6	0.6	8.9	-	7.2	-	-
C.V. %‡	3.3	-	0.7	3.6	7.1	-	4.7	-	-

* 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.

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