



**SOUTH DAKOTA
STATE UNIVERSITY**

College of Agriculture, Food and Environmental Sciences |
SDSU Extension | South Dakota Agricultural Experiment Station

2026 South Dakota Winter Wheat Variety Trial Results - Onida

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Cooperator: Yackley Ranches

Location: 44.8818685°, -100.1434164°

Soil type: Agar silt loam, 0-2% slopes

Previous crop: Spring Wheat

Tillage: No-till

Row spacing: 7.5"

Seeding rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 10 lbs/acre 10-34-0
- Other: 35 gal/acre UAN

Herbicide:

- Burndown: 22 oz/acre RoundupRt3
- Post: 16 oz/acre HUSKY FX at Feekes 5

Fungicide: None

Date seeded: 9/16/2025

Date harvested: 7/13/2026



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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2026 at Onida, 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 (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2024 (bu/a)	2025 (bu/a)	2026 (bu/a)	2-year (bu/a)	3-year (bu/a)
WB4422	20.8	1.0	61.4	15.5	98.1	not	38.0	not	68.1
AP 24AX	23.3	1.3	61.1	14.5	95.8	harvested	40.0	available	67.9
SD PHEASANT	21.0	1.3	60.6	15.7	95.1	-	37.7	-	66.4
AP CLAIR	20.3	1.0	61.1	15.5	89.9	-	37.7	-	63.8
SD MIDLAND	22.5	1.0	60.1	15.2	87.5	-	36.9	-	62.2
WINNER	21.3	1.5	59.8	15.1	83.8	-	37.3	-	60.5
SD VIVIAN	21.8	1.3	61.4	15.4	85.2	-	35.0	-	60.1
DRAPER	20.0	1.0	59.1	15.1	79.9	-	35.3	-	57.6
LCS WARBLER AX	20.5	1.8	59.7	15.6	79.1	-	34.9	-	57.0
LCS HELIX AX	20.3	1.5	62.2	14.2	79.6	-	33.9	-	56.7
CP7869	20.5	1.0	60.0	14.8	78.1	-	34.6	-	56.4
SD ANDES	20.8	1.0	61.1	15.3	75.9	-	35.2	-	55.6
EXPEDITION	22.3	2.0	60.5	15.4	72.9	-	32.4	-	52.7
CP7909	21.8	2.0	57.8	15.0	69.5	-	35.3	-	52.4
CP7017AX	19.8	1.0	58.8	14.8	66.3	-	34.1	-	50.2
AP SUNBIRD	21.3	1.8	59.9	14.1	-	-	36.1	-	-
AP TANGO	19.0	1.3	56.8	16.6	-	-	32.2	-	-
CP7462	18.0	1.0	57.1	15.1	-	-	32.6	-	-
CP7599CLP	20.3	1.8	61.9	14.9	-	-	35.5	-	-
LCS ATOMIC AX	20.3	1.0	58.2	14.6	-	-	32.7	-	-
LCS RADAR	20.5	1.0	57.0	16.6	-	-	32.4	-	-
NE DAYBREAK	22.3	1.0	58.4	15.4	-	-	35.5	-	-
NE FENSTER	23.8	1.8	60.8	16.1	-	-	32.7	-	-
NE DUNBAR CLP	21.3	1.5	59.1	15.1	-	-	35.0	-	-
WB4459AX	22.8	1.5	57.7	15.0	-	-	32.6	-	-
WB4540	21.3	1.0	61.2	15.5	-	-	34.9	-	-
Trial Average#	21.1	1.3	60	15.3	81.6	-	35.3	-	58.5
LSD (0.05)†	2	-	1.1	1	17.5	-	4	-	-
C.V. %‡	5.7	-	1.3	4.8	15.3	-	8.2	-	-

* 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.