



**SOUTH DAKOTA
STATE UNIVERSITY**

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

2026 South Dakota Winter Wheat Forage Trial Results - Pierre

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Location: Pierre, SD (Dakota Lakes Research Farm) (44.292795°, -99.990924°)

Soil type: Millboro silt loam, 0-3% 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: 26.1-0-0-2.6S @ 25gal/ac (UAN (90%)+ATS (10%))

Herbicide:

- Post: 1pt Perfectmatch

Date seeded: 9/24/2025

Date harvested: 6/15/2026

Notes:

- Wheat plots were harvested at milk to early-dough stage with a Swift LTD forage plot harvester.
- Plot sub-samples were weighed and dried for 72 hours at 140 °F
- Dried hay samples were sent to Dairyland Labs (Arcadia, WI) for NIR analysis.



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Table 1. 2026 winter wheat forage trial results (average of 3 replications) at Pierre, SD.

Variety Information				Yield & Nutritional Performance						
Variety	Origin†- Year	Height (inches)	DM ¹ (T/A)	CP ² (%DM)	ADF ³ (%DM)	NDF ⁴ (%DM)	NE L ⁵ (Mcal/ cwt)	NE G ⁶ (Mcal/ cwt)	NE M ⁷ (Mcal/ cwt)	RFV ⁸
MIDLAND	SD 2021	27.7	4.7	13.5	26.9	41.6	70.3	35.5	61.7	152.8
SD25B119-13 ^A	SD 2026	29.0	4.5	11.2	29.7	46.1	67.9	32.9	58.8	132.7
SD22D122-5 ^A	SD 2024	32.3	4.5	12.3	28.7	44.8	68.7	33.8	59.8	138.4
SD25D104-1 ^A	SD 2026	30.7	4.4	11.9	29.6	47.9	67.9	32.3	58.2	127.9
SD25B108-9 ^A	SD 2026	30.0	4.2	13.5	29.4	46.3	68.0	33.7	59.7	133.9
MTF1435 ^A	MT 2018	34.0	4.2	12.6	26.7	40.5	70.5	35.6	61.9	156.3
SD22D122-8 ^A	SD 2024	30.3	4.1	12.7	29.0	46.8	68.5	33.0	59.0	132.0
TB1.MTF20188.MW ^A	MT	37.3	4.1	12.7	30.6	49.7	67.0	31.8	57.7	121.8
APSTOCKY ^A	AP 2026	26.0	3.8	13.4	26.2	41.8	70.9	35.4	61.6	152.4
TB1.MTF20188.MM ^A	MT	35.7	3.8	13.2	28.1	45.4	69.3	33.8	59.9	137.5
TB1.RAY.WM ^A	MT	33.3	3.8	13.0	30.2	49.0	67.4	32.2	58.1	124.1
MTF20188 ^A	MT	33.0	3.6	11.8	30.9	49.3	66.8	31.7	57.6	122.3
WINNER	SD 2019	24.0	3.5	11.7	32.5	51.1	65.4	30.9	56.7	115.7
TB1.RAY.MW ^A	MT	31.3	3.5	12.7	31.5	50.6	66.3	31.5	57.3	118.5
WB4650	WB 2026	23.7	3.5	11.9	31.4	49.4	66.4	31.7	57.5	121.4
TB1.RAY.MM ^A	MT	29.3	3.5	12.4	31.7	50.6	66.2	31.3	57.2	118.1
APBALDY ^A	MT	26.3	3.3	13.7	27.6	43.8	69.7	34.6	60.8	143.3
WB4540 ^A	WB 2024	26.0	3.3	13.3	30.0	47.4	67.6	33.0	58.9	128.6
RAY ^A	MT 2018	28.0	3.2	12.1	29.1	44.7	68.4	33.7	59.8	138.7
Trial Average	–	29.9	3.9	12.6	29.5	46.7	68.1	33.1	59.1	132.4
LSD (0.05)\$	–	4.9	0.8	1.2	2.0	2.6	1.7	1.4	1.5	11.2
CV	–	10.0	0.6	5.8	4.0	3.4	1.5	2.5	1.5	5.1

^A = awnless; † AP - AgriPro; ALS - LCS - Limagrain Cereal Seeds; MT - Montana; SD - South Dakota; WB- WestBred; and year release/tested.

\$ Value required (≥LSD) to determine if varieties are significantly different from one another.

¹ Tons per acre of dry matter (DM).

² Crude protein as a percentage of DM.

³ Acid detergent fiber as a % of dry matter. Generally samples with lower ADF are considered higher quality.

⁴ Neutral detergent fiber as a % of dry matter. Generally samples with lower NDF are considered higher quality.

⁵ Net energy, lactation - an estimate of energy value for dairy cattle diets. (Mcal/cwt, DM basis)

⁶ Net energy, gain - an estimate of energy value to support beef cattle growth. (Mcal/cwt, DM basis)

⁷ Net energy, maintenance - an estimate of energy value for meeting maintenance needs of beef cattle. (Mcal/cwt, DM basis).

⁸ Relative feed value - a value representing how well a forage will be consumed and digested.