



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

2026 South Dakota Winter Wheat Forage Trial Results - Brookings

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Location: Brookings, SD (44.329602, -96.828354)

Soil type: Barnes clay loams, 0-2% slopes

Previous crop: Spring Wheat

Tillage: No-till

Row spacing: 8"

Seeding rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 90 lbs/acre 30-10-10
- Other: 38 gallons/acre 28%

Herbicide:

- Post: 1pt Perfectmatch, 2 pt Prowl H2O

Fungicide: 8 oz/acre Prosaro at flowering (Feekes 10.5.1)

Date seeded: 9/23/2025

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 Brookings, 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
SD25B108-9 ^A	SD 2026	32.0	4.0	11.5	34.2	50.8	64.0	31.0	56.8	114.3
SD25D104-1 ^A	SD 2026	33.0	3.8	11.0	32.0	49.0	65.9	31.6	57.4	121.8
SD22D122-8 ^A	SD 2024	32.7	3.8	10.6	31.4	48.3	66.4	31.8	57.6	124.3
SD22D122-5 ^A	SD 2024	32.3	3.5	10.7	30.9	46.9	66.8	32.3	58.3	128.7
MIDLAND	SD 2021	29.7	3.4	11.5	29.7	45.3	67.9	33.3	59.3	135.2
APSTOCKY ^A	AP 2025	27.3	3.4	10.8	29.1	44.3	68.4	33.5	59.5	139.2
MTF1435 ^A	MT 2018	36.0	3.4	10.7	31.0	45.7	66.7	32.8	58.8	131.9
SD25B119-13 ^A	SD 2025	32.0	3.3	10.3	32.1	48.6	65.8	31.5	57.3	122.4
TB1.RAY.WM ^A	MT	34.0	3.2	10.9	33.3	51.6	64.7	30.4	56.2	113.4
MTF20188 ^A	MT	42.7	3.2	10.7	33.7	51.6	64.4	30.4	56.1	112.9
WB4540A	WB 2024	27.0	3.1	10.3	34.9	52.8	63.4	29.8	55.5	108.9
TB1.MTF20188.MM ^A	MT	40.3	3.1	11.2	31.0	47.4	66.7	32.3	58.2	127.2
TB1.MTF20188.MW ^A	MT	40.7	3.1	11.0	34.4	53.2	63.8	29.9	55.5	108.7
TB1.RAY.MW ^A	MT	32.3	2.9	10.6	34.6	53.8	63.6	29.5	55.1	107.2
TB1.RAY.MM ^A	MT	33.0	2.9	10.4	33.5	51.8	64.6	30.2	55.9	112.7
APBALDY ^A	MT	28.3	2.9	11.3	31.9	48.9	66.0	31.7	57.6	121.9
RAY ^A	MT-2018	34.7	2.9	11.1	30.7	46.6	67.0	32.6	58.5	129.7
WB4650	WB 2026	27.3	2.7	10.8	34.2	52.1	64.0	30.2	55.9	111.1
WINNER	SD 2022	26.7	2.7	10.1	36.3	54.4	62.2	29.1	54.7	103.8
Trial Average	–	33.1	3.3	10.8	32.6	49.6	65.4	31.2	57.1	119.8
LSD (0.05)\$	–	2.9	0.7	1.3	2.1	2.3	1.8	1.0	1.1	8.4
CV	–	5.4	14.9	7.4	3.8	2.8	1.7	1.9	1.1	4.2

^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.