



**SOUTH DAKOTA
STATE UNIVERSITY**

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

2025 South Dakota Oat Variety Trial Results - Miller

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Location: 44.479505°, -98.742925°

Soil type: Davis silt loam, fans, nearly level

Previous crop: Soybeans

Tillage: No-till

Row spacing: 8"

Seeding rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 90 lb/acre 30-10-10
- Other: 108-24-21-6s

Herbicide:

- Burndown: None
- Post: 32oz/ac Bronate

Fungicide: None

Date seeded: 4/11/2025

Date harvested: 8/5/2025



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Oat Variety Trial Results
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Table 1. 2025 oat variety performance trial results (average of 4 replications) at Miller, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top yielding group are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	2023 (bu/a)	2024 (bu/a)	2025 (bu/a)	2-year (bu/a)	3-year (bu/a)
CS Camden	38	2	29.3	122.2	79.2	134.5	106.8	111.9
CDC Endure	38	2	29.9	118.7	74.9	116.4	95.7	103.4
Deon	42	3	32.0	103.2	76.0	130.6	103.3	103.3
Hayden	40	4	33.3	122.2	58.6	118.2	88.4	99.7
SD Buffalo	41	4	32.1	100.0	75.4	115.5	95.4	97.0
Goliath	43	3	33.1	118.7	61.9	103.0	82.5	94.5
MN Pearl	38	4	30.3	103.2	46.0	113.6	79.8	87.6
Shelby427	38	3	34.0	100.0	54.8	106.1	80.4	87.0
Warrior	38	2	32.5	93.8	45.1	121.6	83.3	86.8
Rushmore	37	4	32.8	101.9	51.1	97.2	74.1	83.4
SD Titan	43	2	32.3	–	49.0	120.5	84.8	–
SD Momentum	48	3	32.7	–	68.1	123.7	95.9	–
Esker2020	36	2	28.0	–	–	115.2	–	–
Fred	41	2	34.2	–	–	118.8	–	–
GMI2020Y2863	43	2	30.3	–	–	118.5	–	–
Saddle	34	3	30.9	–	–	97.7	–	–
SD Ranger	41	3	32.9	–	–	141.4	–	–
Sumo	35	1	33.1	–	–	102.6	–	–
Trial Average#	39	2	32.3	108.5	65.1	120.0	92.5	97.9
LSD (0.05)†	4.7	1.1	1.4	7.7	12	20.7	–	–
C.V. %‡	8.6	39.2	3.1	5	13.1	12.3	–	–

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

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.