



**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 - South Shore

David Karki | SDSU Extension Agronomist

Melanie Caffé | SDSU Oat Breeder

Shawn Hawks | Agricultural Research Manager

Jesse Hall | SDSU CPT Trial Manager

Cooperator: South Dakota State University Northeast Research Farm

Location: 45.107001°, -97.098708°

Soil type: Kranzburg-Brookings silty clay loams, 0-2% slopes

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: 100-0-25 broadcast preplant

Herbicide:

- Burndown: None
- Post: 24oz/ac Bronate

Fungicide: None

Date seeded: 4/16/2025

Date harvested: 8/21/2025



**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

2025 South Dakota Oat Variety Trial Results South Shore

Table 1. 2025 oat variety performance trial results (average of 4 replications) at South Shore, 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)
CDC Endure	39	5	29.7	132.0	123.0	81.3	102.1	117.6
Deon	41	5	33.2	116.5	119.1	84.4	101.7	112.2
Goliath	45	5	30.4	116.4	121.5	68.3	94.9	109.3
CS Camden	35	5	27.9	124.3	106.9	86.6	96.8	108.8
SD Buffalo	41	5	32.3	110.7	111.2	77.0	94.1	104.8
Hayden	43	5	32.4	115.3	104.0	70.8	87.4	101.0
Warrior	39	5	32.3	112.1	94.5	86.0	90.3	99.1
Shelby427	43	5	35.4	108.1	77.1	71.6	74.4	85.7
MN Pearl	41	5	26.0	106.9	87.6	42.6	65.1	83.4
Rushmore	40	5	31.2	100.7	83.8	55.7	69.8	83.1
SD Titan	46	5	34.6	–	132.5	109.0	120.8	–
SD Momentum	45	5	36.3	–	125.3	110.2	117.7	–
Esker2020	36	5	32.3	–	–	107.9	–	–
GMI2020Y2863	41	5	31.8	–	–	112.8	–	–
Saddle	37	5	31.0	–	–	63.8	–	–
SD Ranger	43	5	34.8	–	–	106.5	–	–
Sumo	38	5	34.5	–	–	76.6	–	–
Trial Average#	41	5	33.6	118.1	114	92	103.2	108.1
LSD (0.05)†	2.2	–	0.8	6.4	18.8	11.8	–	–
C.V. %‡	4.1	–	1.8	3.9	11.7	7.2	–	–

* 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.