



**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 - Sturgis

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Cooperator: South Dakota State University Sturgis Research Farm

Location: 44.424167°, -103.376111°

Soil type: Nunn loam, 0-2% slopes

Previous crop: Winter Wheat

Tillage: No-till

Row spacing: 10"

Seeding rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 6 gal/acre 10-25-0-5S-0.25Z
- Other: 40 gal/acre 28-0-0 mid-row banded

Herbicide:

- Burndown: 16 oz/acre PerfectMatch + 32 oz/acre Roundup
- Post: none

Fungicide: None

Date seeded: 4/15/2025

Date harvested: 8/13/2025



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

Variety	Test Wt (lbs)	2023 (bu/a)	2024 (bu/a)	2025 (bu/a)	2-year (bu/a)	3-year (bu/a)
CDC Endure	37.6	148.2	not	103.8	not	126.0
CS Camden	37.7	143.3	harvested	103.2	available	123.2
Goliath	39.1	93.5	-	113.9	-	103.7
Hayden	38.9	82.5	-	115.2	-	98.9
Rushmore	38.7	111.1	-	86.2	-	98.7
Warrior	36.8	89.9	-	97.2	-	93.5
SD Buffalo	39.9	84.8	-	100.6	-	92.7
MN Pearl	38.0	80.6	-	100.2	-	90.4
Deon	38.8	79.3	-	96.9	-	88.1
Shelby427	38.8	97.7	-	78.2	-	87.9
Esker2020	35.8	-	-	84.9	-	-
Fred	39.3	-	-	92.1	-	-
GMI2020Y2863	37.3	-	-	119.3	-	-
Saddle	37.2	-	-	82.4	-	-
SD Ranger	40	-	-	121.6	-	-
SD Titan	38.9	-	-	99	-	-
SD Momentum	39.4	-	-	122.6	-	-
Sumo	37.3	-	-	66.4	-	-
Trial Average#	38.7	97.6	-	106.1	-	101.9
LSD (0.05)†	1.5	13	-	22.1	-	-
C.V. %‡	2.8	9.4	-	15.3	-	-

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.