

2025 South Dakota Oat Variety Trial Results - Madison

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Location: 43.862298°, -97.171856°

Soil type: Egan-Wentworth complex, 2-6% slopes

Previous crop: Soybeans

Tillage: Tilled

Row spacing: 8"

Seeding rate: 1.6 million PLS/acre

Fertilizer:

- Starter: None
- Other: None

Herbicide:

- Burndown: None
- Post: None

Fungicide: None

Date seeded: 4/10/2025

Date harvested: 8/1/2025



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Table 1. 2025 oat variety performance trial results (average of 3 replications) at Madison, 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)
Hayden	40	5	34.9	67.6	not	126.2	not	96.9
CSCamden	36	5	32.0	74.1	harvested	114.2	available	94.1
CDCEndure	39	1	33.7	76.1	-	111.1	-	93.6
Goliath	45	5	34.2	65.3	-	118.6	-	91.9
Rushmore	39	5	33.6	60.5	-	122.3	-	91.4
Shelby427	38	4	35.6	59.9	-	122.0	-	90.9
Deon	38	3	33.9	74.6	-	106.6	-	90.6
Warrior	37	3	34.2	55.8	-	125.2	-	90.5
Esker2020	37	5	30.7	-	-	123.4	-	-
Fred	39	3	36.2	-	-	134.3	-	-
GMI2020Y2863	42	3	33.4	-	-	116.1	-	-
MNPearl	39	5	31.5	-	-	123.6	-	-
Saddle	37	5	32.9	-	-	129.2	-	-
SDBuffalo	40	5	33.5	-	-	112.7	-	-
SDMomentum	47	3	36.3	-	-	129.4	-	-
SDRanger	38	5	33.6	-	-	123.5	-	-
SDTitan	46	1	32.5	-	-	115.5	-	-
Sumo	38	3	34.8	-	-	125.5	-	-
Trial Average#	35	2	27.4	66.9	-	81.5	-	74.2
LSD (0.05)†	3.6	0.6	1.4	8.3	-	15.9	-	-
C.V. %‡	7.1	19	3.6	7.6	-	13.5	-	-

* 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.