



**SOUTH DAKOTA
STATE UNIVERSITY**

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

2026 South Dakota Oat Variety Trial Results - Pierre

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Location: 44.291389°, -99.991389°

Soil type: Dorna silt loam

Previous crop: Soybeans

Tillage: No-till

Row spacing: 7"

Seeding rate: 1.2 million PLS/acre

Fertilizer:

- Starter: None
- Other: 5 gal/acre of 26.1-0-0-2.6S = 67.5 lbs N. Applied May 15

Herbicide:

- Burndown: Fall burndown application of glyphosate (26 oz/ac) and 2,4-d (13 oz per acre)
- Post: None

Fungicide: None

Date seeded: 3/23/2026

Date harvested: 7/29/2026

Notes: This trial site was initiated in 2019 as part of an initiative titled "Wheat and Oat Grains for Productivity in Regenerative, Organic, and Conventional Farming Systems", sponsored by the General Mills Foundation.



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Table 1. 2026 oat variety performance trial results (average of 4 replications) at Pierre, 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/bu)	2024 (bu/a)	2025 (bu/a)	2026 (bu/a)	2-year (bu/a)	3-year (bu/a)
HAYDEN	43	1	37.2	153	not	147.1	not	150.0
SD RANGER	41	1	37.2	155	harvested	140.3	available	147.6
RUSHMORE	41	2	38.7	149	-	144.0	-	146.5
SD SOLDIER	42	1	38.7	151	-	141.6	-	146.1
SD BUFFALO	45	1	37.6	138	-	146.4	-	142.2
DEON	46	1	35.2	145	-	139.0	-	142.0
CDC ENDURE	42	1	33.4	151	-	131.1	-	141.0
CS CAMDEN	41	1	32.7	140	-	140.2	-	140.1
SD TITAN	46	1	35.4	151	-	127.5	-	139.2
SD MOMENTUM	51	1	37.4	146	-	130.3	-	138.2
MN PEARL	40	1	34.8	142	-	130.4	-	136.2
GOLIATH	48	3	36.0	144	-	125.1	-	134.5
WARRIOR	36	1	34.9	138	-	121.2	-	129.6
SHELBY427	41	1	37.2	128	-	114.0	-	121.0
GMI2021Y2032	32	1	34.0	-	-	139.2	-	-
MN-AMBER	39	1	39.0	-	-	136.0	-	-
ND MILLER	44	2	36.0	-	-	130.1	-	-
ND WILLIAMS	48	1	36.1	-	-	131.5	-	-
Trial Average#	43	1.3	36.4	149	-	133.7	-	141
LSD(0.05)†	-	-	1.7	11.9	-	23.5	-	-
C.V.%‡	-	-	3.3	5.7	-	12.4	-	-

* 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.