



**SOUTH DAKOTA  
STATE UNIVERSITY**  
College of Agriculture, Food  
and Environmental Sciences

South Dakota State University Extension  
South Dakota Agricultural Experiment Station at SDSU

# 2024 South Dakota Oat Variety Trial Results South Shore

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**Cooperator:** South Dakota State University Northeast Research Farm  
**Location:** 45.106808°, -97.10020°  
**Soil Type:** Kranzburg-Brookings silty clay loams, 0-2% slopes  
**Previous crop:** soybeans  
**Tillage:** conventional  
**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: 24 oz/ac Bronate  
**Fungicide:** none  
**Date seeded:** 5/6/2024  
**Date harvested:** 8/28/2024

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S-0002-2024-02-Oat-South-Shore



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Table 1. 2024 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 1/3 of the trial are boldfaced and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	2024 (bu/a)	2-year (bu/a)	3-year (bu/a)
SD-Titan	47	5	33.2	<b>132.5</b>	<b>131.5</b>	<b>128.9</b>
CDC Endure	43	5	30.5	<b>123.0</b>	<b>133.0</b>	<b>125.4</b>
SD-Momentum	54	5	34.4	<b>125.3</b>	<b>126.0</b>	<b>122.8</b>
Deon	45	5	32.7	119.1	122.7	<b>117.3</b>
CS Camden	41	5	29.0	106.9	120.8	113.6
Goliath	50	5	34.0	<b>121.5</b>	<b>123.8</b>	112.4
SD-Bufferlo	44	5	32.3	111.2	115.5	108.3
Warrior	41	5	32.7	94.5	108.0	104.1
Hayden	43	5	33.9	104.0	114.5	99.5
MN Pearl	44	5	28.6	87.6	101.7	92.1
Shelby427	44	5	32.9	77.1	97.1	89.4
Rushmore	44	5	31.1	83.8	96.4	89.3
2018Y1315	38	5	28.0	111.1	122.6	-
<b>Trial Average#</b>	44	5	32.6	113.9	115.9	109.9
<b>LSD(0.05)†</b>	-	-	1.5	18.8	18.5	16.4
<b>C.V.%‡</b>	-	-	-	11.7	11.3	10.7

\* 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.