



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

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

# 2023 South Dakota Oat Variety Trial Results South Shore

Jonathan Kleinjan | SDSU Extension Agronomist  
Kevin Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager

**Cooperator:** South Dakota State University Northeast Research Farm  
**Location:** 45.106818°, -97.097026°  
**Soil Type:** Kranzburg-Brookings, 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: 100-0-50 broadcast preplant  
**Herbicide:**  
-Burndown: none  
-Post: 1.5 pt/acre Bronate  
**Fungicide:** none  
**Date seeded:** 5/2/2023  
**Date harvested:** 8/10/2023

SDSU Extension is an equal opportunity provider and employer in accordance with the nondiscrimination policies of South Dakota State University, the South Dakota Board of Regents and the United States Department of Agriculture.

Learn more at [extension.sdstate.edu](https://extension.sdstate.edu).

© 2023, South Dakota Board of Regents



## 2023 South Dakota Oat Variety Trial Results South Shore

**SOUTH DAKOTA STATE  
UNIVERSITY EXTENSION**

Table 1. 2023 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)	2021 (bu/a)	2022 (bu/a)	2023 (bu/a)	2-year (bu/a)	3-year (bu/a)
Deon	29	1.5	35.1	<b>99.1</b>	<b>106.5</b>	116.5	<b>111.5</b>	<b>107.4</b>
CS Camden	28	1.0	32.4	<b>96.1</b>	<b>99.3</b>	<b>124.3</b>	<b>111.8</b>	<b>106.6</b>
Warrior	26	1.3	34.4	93.9	<b>96.4</b>	112.1	<b>104.2</b>	<b>100.8</b>
SD-Buffalo	27	1.3	34.7	<b>94.4</b>	93.8	110.7	102.2	99.6
Goliath	36	4.0	37.2	86.2	89.6	116.4	103.0	97.4
Hayden	29	1.5	36.2	92.8	69.6	115.3	92.4	92.6
Shelby427	28	1.0	35.4	92.0	74.0	108.1	91.1	91.4
MN Pearl	30	3.0	35.6	80.6	72.9	106.9	89.9	86.8
Rushmore	28	2.8	36.3	72.7	75.2	100.7	87.9	82.9
CDC Endure	28	2.3	35.3	-	-	<b>132.0</b>	-	-
2018Y0689	26	1.0	33.0	-	-	<b>124.7</b>	-	-
2018Y1315	24	1.0	31.8	-	-	<b>123.3</b>	-	-
<b>Trial Average#</b>	29	1.8	35.6	87.6	87.2	118.1	99.3	96.1
<b>LSD(0.05)†</b>	-	-	0.6	4.3	5.1	6.4	-	-
<b>C.V.%‡</b>	-	-	-	3.4	3.8	3.9	-	-

\* 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.