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

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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

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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	**99.1**	**106.5**	116.5	**111.5**	**107.4**
CS Camden	28	1.0	32.4	**96.1**	**99.3**	**124.3**	**111.8**	**106.6**
Warrior	26	1.3	34.4	93.9	**96.4**	112.1	**104.2**	**100.8**
SD-Buffalo	27	1.3	34.7	**94.4**	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	-	-	**132.0**	-	-
2018Y0689	26	1.0	33.0	-	-	**124.7**	-	-
2018Y1315	24	1.0	31.8	-	-	**123.3**	-	-
Trial Average#	29	1.8	35.6	87.6	87.2	118.1	99.3	96.1
LSD(0.05)†	-	-	0.6	4.3	5.1	6.4	-	-
C.V.%‡	-	-	-	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 (≥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.