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 Aberdeen

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Cooperator:	Gregg and Tom Erickson
Location:	45.403178°, -98.786368°
Soil Type:	Williams-Bowbells-Tonka complex, 0-6% slopes
Previous crop:	soybeans
Tillage:	no-till
Row spacing:	8"
Seeding Rate:	1.2 million PLS/acre
Fertilizer:	
-Starter:	90 lb/acre 30-10-10
-Other:	140-26-18-10s
Herbicide:	
-Burndown:	none
-Post:	32 oz Bronate
Fungicide:	none
Date seeded:	4/22/2024
Date harvested:	8/19/2024

S-0002-2024-02-Oat-Aberdeen

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Table 1. 2024 oat variety performance trial results (average of 4 replications) at Aberdeen, 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)
CS Camden	42	4.8	32.3	**149.9**	**129.3**	not
SD-Buffalo	42	5.0	35.5	**131.1**	**127.9**	available
Deon	41	3.8	34.0	127.1	**124.6**	-
CDC Endure	45	3.3	32.9	**150.3**	**123.6**	-
SD-Momentum	48	3.7	33.6	116.0	122.7	-
SD-Titan	48	3.3	31.8	119.9	117.8	-
Hayden	40	5.0	34.8	118.4	114.0	-
Warrior	40	3.3	33.5	121.0	113.2	-
MN Pearl	44	5.0	33.2	124.3	111.6	-
Rushmore	38	5.0	34.4	109.2	106.6	-
Goliath	47	4.0	34.0	113.3	104.1	-
Shelby427	40	5.0	35.2	105.9	101.5	-
2018Y1315	35	4.8	29.9	**137.4**	-	-
Trial Average#	42	4.2	33.7	125.6	114.4	-
LSD(0.05)†	-	-	1.9	19.5	19.5	-
C.V.%‡	-	-	-	11.1	12.2	-

* 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.