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

2024 South Dakota Oat Variety Trial Results Miller

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Cooperator:	Lee Lichty
Location:	44.524030°, -98.762852°
Soil Type:	Davis silt loam, fans, nearly level
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:	160 lbs/acre Urea, 50 lbs Mesz
Herbicide:	
-Burndown:	none
-Post:	32 oz Bronate
Fungicide:	none
Date seeded:	5/13/2024
Date harvested:	8/31/2024

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Table 1. 2024 oat variety performance trial results (average of 4 replications) at Miller, 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-Buffalo	45	5.0	35.7	**75.4**	**100.5**	**101.8**
CS Camden	38	5.0	33.4	**79.2**	**103.9**	**101.4**
CDC Endure	38	4.8	35.1	74.9	**103.6**	**100.8**
Deon	43	4.0	36.4	**76.0**	93.9	**98.2**
SD-Momentum	49	4.0	38.2	68.1	91.4	96.5
SD-Titan	48	2.5	36.3	49.0	89.0	94.7
Hayden	43	5.0	34.5	58.6	86.0	93.2
Goliath	49	5.0	35.5	61.9	87.2	90.4
Shelby427	41	4.5	-	54.8	81.6	88.8
Warrior	38	2.0	-	45.1	73.4	82.8
MN Pearl	42	5.0	-	46.0	78.3	81.9
Rushmore	40	5.0	-	51.1	80.8	81.5
2018Y1315	35	2.5	32.6	**83.0**	**108.8**	-
Trial Average#	41	3.9	33.9	65.1	90.2	93.8
LSD(0.05)†	-	-	0.9	12.0	13.1	13.0
C.V.%‡	-	-	-	13.1	10.3	9.9

* 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.