



**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 Pierre

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Cooperator: Dakota Lakes Research Farm
Location: 44.291389°, -99.991389°
Soil Type: Dorna silt loam
Previous crop: soybeans
Tillage: no-till
Row spacing: 7"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: none
-Other: 20 gal/acre 26.1-0-0-2.6S steambar applied on 5/8/2024
Herbicide:
-Burndown: none
-Post: 1 pt/acre Bromoxynil + MCPA on 5/17/24
Fungicide: none
Date seeded: 3/19/2024
Date harvested: 7/25/2024

Note: This trial site was initiated in 2019 as part of an initiative titled "Wheat and Oat Grains for Productivity in Regenerative, Organic, and Conventional Farming Systems", sponsored by the General Mills Foundation.



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Table 1. 2024 oat variety performance trial results (average of 4 replications) at Pierre, 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-Momentum	42	1.0	39.6	146	140	133
CDC Endure	37	1.0	36.2	151	137	132
Hayden	36	1.0	38.7	153	136	132
SD-Buffalo	33	1.0	37.6	138	138	132
CS Camden	32	1.5	35.5	140	134	130
Deon	35	1.5	37.2	145	140	127
MN Pearl	35	1.0	37.4	142	134	127
Warrior	32	1.0	36.5	138	129	127
SD-Titan	40	1.0	38.1	151	134	126
Goliath	43	2.0	38.4	144	132	123
Rushmore	35	1.0	39.0	149	137	122
Shelby427	33	1.0	37.7	128	122	116
2018Y1315	29	1.3	33.0	144	127	-
Trial Average#	35	1.3	37.8	149	134	128
LSD(0.05)†	-	-	0.6	11.9	15.4	15.7
C.V.%‡	-	-	-	5.7	8.1	8.8

* 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.