



**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 Selby

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**Cooperator:** Tom Fiedler  
**Location:** 45.518561°, -100.037454°  
**Soil Type:** Highmore silt loam, 0-2% 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: 173-26-0-18S broadcast preplant  
**Herbicide:**  
-Burndown: none  
-Post: 32 oz/ac Bronate  
**Fungicide:** none  
**Date seeded:** 4/23/2024  
**Date harvested:** 8/30/2024

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Table 1. 2024 oat variety performance trial results (average of 4 replications) at Selby, 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)
CDC Endure	39	2.0	31.7	<b>178</b>	<b>197</b>	<b>184</b>
CS Camden	37	3.0	31.5	<b>187</b>	<b>205</b>	<b>184</b>
SD-Momentum	45	2.3	35.9	<b>181</b>	187	<b>177</b>
MN Pearl	41	4.0	33.6	178	<b>190</b>	<b>174</b>
SD-Bufferlo	37	3.3	35.5	167	187	173
Deon	37	4.0	35.0	<b>181</b>	184	171
Goliath	43	4.3	36.0	176	182	169
SD-Titan	44	3.7	35.1	172	175	168
Warrior	34	2.0	34.3	166	172	165
Hayden	38	3.0	35.7	165	167	163
Rushmore	37	4.3	35.8	160	173	160
Shelby427	35	3.0	36.4	147	157	152
2018Y1315	34	2.3	29.4	176	<b>194</b>	-
<b>Trial Average#</b>	38	3.5	34.7	170	182	171
<b>LSD(0.05)†</b>	-	-	0.7	16.7	15.0	15.9
<b>C.V.%‡</b>	-	-	-	6.0	5.8	6.6

\* 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.