



**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 Selby

Jonathan Kleinjan | SDSU Extension Agronomist  
Kevin Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager

**Cooperator:** Tom Fiedler  
**Location:** 45.500377°, -100.017151°  
**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: 183-26-0-18S broadcast preplant  
**Herbicide:**  
-Burndown: none  
-Post: 1.5 pt/acre Bromac  
**Fungicide:** 11 oz/acre Prosaro Pro applied at heading  
**Date seeded:** 4/25/2023  
**Date harvested:** 8/25/2023

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Table 1. 2023 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)	2021 (bu/a)	2022 (bu/a)	2023 (bu/a)	2-year (bu/a)	3-year (bu/a)
CS Camden	41	3.8	31.9	not	146.5	<b>218.6</b>	<b>182.5</b>	not
SD-Buffalo	41	3.5	35.4	harvested	146.4	202.8	<b>174.6</b>	available
MN Pearl	42	4.5	34.9	-	143.8	199.8	<b>171.8</b>	-
Deon	40	4.5	35.6	-	<b>147.1</b>	187.2	167.2	-
Goliath	46	5.0	36.2	-	145.8	187.5	166.6	-
Warrior	37	2.5	34.2	-	<b>149.6</b>	177.7	163.6	-
Hayden	43	4.0	35.8	-	<b>155.0</b>	169.6	162.3	-
Rushmore	39	4.5	36.0	-	136.4	182.4	159.4	-
Shelby427	39	3.0	35.9	-	142.5	164.4	153.5	-
2018Y1315	36	4.8	30.7	-	-	<b>213.3</b>	-	-
2018Y0689	41	3.3	33.1	-	-	<b>211.8</b>	-	-
CDC Endure	40	3.0	34.0	-	-	211.1	-	-
<b>Trial Average#</b>	41	4.0	35.3	-	144.7	189.1	166.8	-
<b>LSD(0.05)†</b>	-	-	0.8	-	6.2	11.8	-	-
<b>C.V.%‡</b>	-	-	-	-	3.0	4.5	-	-

\* 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.