



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

South Dakota State University Extension  
South Dakota Agricultural Experiment Station at SDSU

# 2022 South Dakota Oat Variety Trial Results Selby

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**Cooperator:** Tom Fiedler  
**Location:** 45.486058°, -100.018303°  
**Soil Type:** Highmore-Eakin silt loams, cool, 2-6% 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: 168-28-0-18S broadcast preplant  
**Herbicide:**  
-Burndown: none  
-Post: 2 pt/acre Maestro 2EC + 1 pt/acre WideMatch  
**Fungicide:** none  
**Date seeded:** 4/20/2022  
**Date harvested:** 8/17/2022

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Table 1. 2022 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 bold and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	2020 (bu/a)	2021 (bu/a)	2022 (bu/a)	2-year (bu/a)	3-year§ (bu/a)
CS Camden	38.0	2.3	33.3	<b>144.5</b>	not	146.5	not	<b>145.5</b>
Hayden	38.5	2.8	38.5	129.9	harvested	<b>155.0</b>	available	<b>142.4</b>
SD-Buffalo	38.0	2.8	37.4	<b>134.9</b>	-	146.4	-	<b>140.6</b>
Deon	40.5	3.0	36.1	<b>130.4</b>	-	<b>147.1</b>	-	<b>138.7</b>
Goliath	43.8	3.3	37.3	127.8	-	145.8	-	136.8
Esker2020	34.8	3.0	32.4	124.1	-	<b>148.2</b>	-	136.1
MN Pearl	40.0	3.5	35.5	128.0	-	143.8	-	135.9
Rushmore	36.5	3.0	37.8	<b>134.5</b>	-	136.4	-	135.4
Saddle	32.5	1.0	36.1	118.1	-	142.7	-	130.4
Warrior	35.0	1.5	36.6	102.5	-	<b>149.6</b>	-	126.0
Shelby427	38.3	1.8	37.7	108.0	-	142.5	-	125.3
Reins	30.0	1.0	36.9	-	-	133.1	-	-
<b>Trial Average#</b>	37	2.4	36.3	125.7	-	144.7	-	135.8
<b>LSD(0.05)†</b>	-	-	0.8	6.6	-	6.2	-	-
<b>C.V.%‡</b>	-	-	-	3.8	-	3.0	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

§Plots were not harvested in 2021 due to drought. The 3-year average is actually an average of 2020 & 2022.

# 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.