



**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

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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 | 218.6 | 182.5 | not |
| SD-Buffalo | 41 | 3.5 | 35.4 | harvested | 146.4 | 202.8 | 174.6 | available |
| MN Pearl | 42 | 4.5 | 34.9 | - | 143.8 | 199.8 | 171.8 | - |
| Deon | 40 | 4.5 | 35.6 | - | 147.1 | 187.2 | 167.2 | - |
| Goliath | 46 | 5.0 | 36.2 | - | 145.8 | 187.5 | 166.6 | - |
| Warrior | 37 | 2.5 | 34.2 | - | 149.6 | 177.7 | 163.6 | - |
| Hayden | 43 | 4.0 | 35.8 | - | 155.0 | 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 | - | - | 213.3 | - | - |
| 2018Y0689 | 41 | 3.3 | 33.1 | - | - | 211.8 | - | - |
| CDC Endure | 40 | 3.0 | 34.0 | - | - | 211.1 | - | - |
| Trial Average# | 41 | 4.0 | 35.3 | - | 144.7 | 189.1 | 166.8 | - |
| LSD(0.05)† | - | - | 0.8 | - | 6.2 | 11.8 | - | - |
| C.V.%‡ | - | - | - | - | 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 (\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.