



2023 South Dakota Oat Variety Trial Results Sturgis

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Cooperator: South Dakota State University Sturgis Research Farm
Location: 44.424167°, -103.376111°
Soil Type: Nunn loam, 0-2% slopes
Previous crop: field peas
Tillage: no-till
Row spacing: 10"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 6 gal/acre 10-25-0-5S-.25Z
-Other: 40 gal/acre 28-0-0 mid-row banded
Herbicide:
-Burndown: 16 oz/acre WideMatch + 32 oz/acre Roundup
-Post: none
Fungicide: none
Date seeded: 4/12/2023
Date harvested: 8/9/2023



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Table 1. 2023 oat variety performance trial results (average of 4 replications) at Sturgis, 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) |
|-----------------------|--------------|-------------------|------------------|----------------|----------------|----------------|------------------|------------------|
| CDC Endure | not reported | not reported | 38.2 | not harvested | not harvested | 148.2 | not available | not available |
| CS Camden | not reported | not reported | 37.1 | not harvested | not harvested | 143.3 | not available | not available |
| 2018Y0689 | - | - | 36.3 | - | - | 120.1 | - | - |
| Rushmore | - | - | 35.8 | - | - | 111.1 | - | - |
| 2018Y1315 | - | - | 32.3 | - | - | 107.0 | - | - |
| Shelby427 | - | - | 36.5 | - | - | 97.7 | - | - |
| Goliath | - | - | 37.9 | - | - | 93.5 | - | - |
| Warrior | - | - | 32.9 | - | - | 89.9 | - | - |
| SD-Buffalo | - | - | 33.8 | - | - | 84.8 | - | - |
| Hayden | - | - | 33.1 | - | - | 82.5 | - | - |
| MN Pearl | - | - | 31.9 | - | - | 80.6 | - | - |
| Deon | - | - | 33.6 | - | - | 79.3 | - | - |
| Trial Average# | - | - | 35.3 | - | - | 97.6 | - | - |
| LSD(0.05)† | - | - | 1.6 | - | - | 13 | - | - |
| C.V.%‡ | - | - | - | - | - | 9.4 | - | - |

* 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.