



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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SOUTH DAKOTA STATE UNIVERSITY EXTENSION

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.