



**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 Volga

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

Cooperator: South Dakota State University Farm Department
Location: 44.302324°, -96.921010°
Soil Type: Brandt silty clay loam, 0-2% slopes
Previous crop: soybeans
Tillage: min-till
Row spacing: 8"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 100-30-30 broadcast preplant
Herbicide:
-Burndown: none
-Post: 1 pt/acre Bromac
Fungicide: none
Date seeded: 4/24/2023
Date harvested: 8/2/2023



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Table 1. 2023 oat variety performance trial results (average of 4 replications) at Volga, 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	26	1.0	31.0	115.8	110.3	113.1	111.7	113.1
Warrior	27	1.0	34.1	99.1	120.6	107.7	114.2	109.1
Deon	25	1.0	33.5	111.1	111.8	100.4	106.1	107.7
Hayden	24	1.0	33.9	100.6	103.0	108.5	105.7	104.0
SD-Buffalo	23	1.0	32.5	112.3	106.6	93.0	99.8	104.0
Shelby427	26	1.0	33.8	99.0	107.3	94.8	101.0	100.4
MN Pearl	26	1.0	35.7	94.5	99.8	102.2	101.0	98.8
Rushmore	23	1.0	35.5	97.3	103.1	95.4	99.3	98.6
Goliath	30	1.0	34.8	95.3	99.2	101.2	100.2	98.6
CDC Endure	27	1.0	31.8	-	-	117.8	-	-
2018Y0689	23	1.0	32.3	-	-	115.4	-	-
2018Y1315	21	1.0	27.1	-	-	96.7	-	-
Trial Average#	26	1.0	33.6	99.6	110.2	106.3	104.3	103.8
LSD(0.05)†	-	-	1.0	5.0	5.0	12.1	-	-
C.V.%‡	-	-	-	3.6	3.2	8.1	-	-

* 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.