



**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 Volga

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

Cooperator: South Dakota State University Farm Department
Location: 44.302398°, -96.918976°
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: 2 pt/acre Maestro 2EC
Fungicide: 7 oz/acre Stratego applied at Feekes 8.0 (flag leaf emerged) on the fungicide-treated plots
Date seeded: 4/21/2022
Date harvested: 7/28/2022
Notes: This trial location is set up with a split-plot design. All varieties are tested with and without fungicide.



2022 South Dakota Oat Variety Trial Results Volga

SOUTH DAKOTA STATE UNIVERSITY EXTENSION

Table 1. 2022 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 bold and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Test Wt (lbs) w/ fung.	2020 (bu/a)	2021 (bu/a)	2022 (bu/a)	2022 (bu/a) w/fung.	2-year (bu/a)	3-year (bu/a)
SD-Buffalo	35	1.3	33.0	34.1	118.2	112.3	106.6	118.9	109.4	112.4
Warrior	34	1.0	33.7	33.7	108.7	99.1	120.6	120.8	109.8	109.4
CS Camden	34	1.3	28.7	30.8	93.8	115.8	110.3	118.9	113.1	106.7
Deon	37	2.3	32.8	33.8	93.9	111.1	111.8	117.0	111.4	105.6
Rushmore	35	1.0	35.5	36.0	115.8	97.3	103.1	112.1	100.2	105.4
Esker2020	34	1.3	32.1	32.9	98.9	99.8	109.7	112.2	104.7	102.8
MN Pearl	35	1.3	30.2	33.5	99.3	94.5	99.8	116.7	97.1	97.9
Hayden	36	1.5	33.1	35.2	66.6	100.6	103.0	120.0	101.8	90.1
Saddle	32	1.0	35.0	35.5	102.0	84.5	81.3	92.4	82.9	89.3
Shelby427	35	1.3	35.3	35.7	61.3	99.0	107.3	114.4	103.1	89.2
Goliath	41	2.0	31.5	33.9	70.8	95.3	99.2	112.6	97.2	88.4
Reins	29	1.3	35.4	35.8	-	92.9	92.3	95.7	92.6	-
Trial Average#	35	1.4	33.0	34.2	93.6	100.2	103.7	112.6	102.0	99.7
LSD(0.05)†	-	-	0.8	0.7	7.9	5.0	5.0	5.0	-	-
C.V.%‡	-	-	-	1.6	5.7	3.6	3.2	-	-	-

* 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.