



**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 Aberdeen

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Cooperator: Nutrien Ag Solutions - Northville, SD
Location: 45.158545°, -98.567070°
Soil Type: Harmony-Aberdeen silty clay loams, 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: 30 gal/acre 28-0-0 preplant broadcast
Herbicide:
-Burndown: NR
-Post: 2 pt/acre Maestro 2EC + 1 pt/acre WideMatch
Fungicide: none
Date seeded: 5/19/2022
Date harvested: 8/25/2022



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Table 1. 2022 oat variety performance trial results (average of 4 replications) at Aberdeen, 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/bu)	2020 (bu/a)	2021 (bu/a)	2022 (bu/a)	2-year (bu/a)	3-year (bu/a)
CS Camden	37	2.5	32.5	180.2	136.2	108.7	122.5	141.7
Deon	38	2.5	36.1	182.3	110.7	122.1	116.4	138.4
SD-Buffalo	37	2.8	36.2	179.0	97.2	124.6	110.9	133.6
Warrior	35	1.8	35.0	170.2	113.2	105.5	109.3	129.6
Esker2020	35	3.5	33.1	170.3	109.2	100.0	104.6	126.5
Hayden	36	3.5	36.6	184.0	84.2	109.7	97.0	126.0
Rushmore	36	3.3	36.7	178.4	92.5	104.0	98.3	125.0
MN Pearl	36	3.3	35.4	177.2	98.3	98.9	98.6	124.8
Goliath	43	3.5	36.5	174.9	94.4	94.9	94.6	121.4
Shelby427	37	2.8	35.9	145.4	100.2	97.2	98.7	114.3
Saddle	32	2.3	33.8	147.1	62.5	66.4	64.4	92.0
Reins	28	1.3	34.5	-	93.8	63.3	-	78.5
Trial Average#	36	2.7	35.2	171.7	99.4	99.6	101.4	121.0
LSD (0.05)†	-	-	1.8	6.7	5.4	6.9	-	-
C.V.%‡	-	-	-	2.8	3.8	4.6	-	-

* 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.