



**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 Beresford

Jonathan Kleinjan | SDSU Extension Agronomist
Melanie Caffè | SDSU Oat Breeder
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager
Nicholas Hall | Agricultural Research Manager

Cooperator: SDSU Southeast Research Farm
Location: 43.053067°, -96.892385°
Soil Type: Egan-Trent silty clay loams, 0-2% slopes
Previous crop: corn
Tillage: conventional
Row spacing: 7"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: none
Herbicide:
-Burndown: NR
-Post: 1.5 pt/acre Bison
Fungicide: none
Date seeded: 4/21/2022
Date harvested: 7/28/2022
Notes: Very dry conditions throughout the growing season.



2022 South Dakota Oat Variety Trial Results Beresford

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2022 oat variety performance trial results (average of 4 replications) at Beresford, 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)
MN Pearl	32	1.0	34.9	113.3	63.7	86.0	74.9	87.7
Goliath	37	1.8	34.1	104.5	72.4	80.3	76.4	85.8
Deon	33	1.0	34.5	111.7	59.0	84.5	71.7	85.1
Rushmore	33	1.0	34.5	105.9	62.0	71.5	66.7	79.8
CS Camden	30	1.0	31.6	93.5	67.7	77.7	72.7	79.6
Hayden	33	1.0	34.6	92.2	61.2	82.9	72.1	78.8
SD-Buffalo	34	1.0	33.7	97.4	53.5	83.6	68.6	78.2
Shelby427	33	1.0	35.3	90.1	62.3	75.0	68.7	75.8
Esker2020	31	1.0	30.5	91.3	61.2	73.9	67.5	75.5
Warrior	31	1.0	32.0	93.2	57.7	62.6	60.2	71.2
Saddle	30	1.0	31.5	70.2	48.4	44.7	46.6	54.4
Reins	27	1.0	34.0	-	62.9	65.5	64.2	-
Trial Average#	32	1.0	33.4	96.7	61.0	74.0	67.5	77.4
LSD(0.05)†	-	-	1.3	9.5	7.6	8.9	-	-
C.V.%‡	-	-	-	6.7	8.6	8.2	-	-

* 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.