



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Oat Variety Trial Results Wall

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Cooperator: Kent Kjerstad
Location: 43.965833°, -102.247500°
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 Roundup RT3
-Post: none
Fungicide: none
Date seeded: 4/1/2021
Date harvested: 7/29/2021

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Table 1. 2021 oat variety performance trial results (average of four replications) at Wall, South Dakota. Entries are sorted by overall three-year yield. Varieties yielding in the top third of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	2019 (bu/a)	2020 (bu/a)	2021 (bu/a)	2-year (bu/a)	3-year (bu/a)
Goliath	38	not reported	37.1	140.1	65.5	69.4	67.5	91.7
CS Camden	29	reported	33.7	118.5	62.0	79.7	70.9	86.8
Rushmore	37	-	37.4	119.1	59.6	80.1	69.8	86.2
MN Pearl	30	-	37.5	132.2	60.1	53.8	57.0	82.1
Natty	28	-	39.3	104.6	65.7	64.6	65.2	78.3
Hayden	33	-	39.0	106.0	59.5	67.2	63.4	77.6
Shelby427	33	-	37.8	90.1	64.7	73.1	68.9	75.9
Deon	29	-	36.7	106.0	64.8	56.5	60.6	75.7
Warrior	31	-	36.8	108.2	59.3	53.8	56.5	73.8
Saddle	33	-	38.0	62.2	63.7	78.6	71.1	68.1
Esker2020	32	-	35.7	-	74.6	86.8	80.7	-
KWS Ocre	29	-	35.8	-	-	85.7	-	-
Reins	27	-	39.4	-	-	64.8	-	-
KWS Opaline	27	-	37.2	-	-	61.3	-	-
Trial Average#	31	-	37.2	107.0	64.7	71.0	66.5	80
LSD(0.05)†	-	-	1.6	18.5	7.7	8.0	-	-
C.V.%‡	-	-	3.1	12.2	8.4	8.0	-	-

* 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.